

Resultant R of the polynomials P_p and Q_q

$$\begin{aligned}
R = & \alpha^8 \beta^{12} - 2 u \alpha^8 \beta^{12} + u^2 \alpha^8 \beta^{12} + 2 z \alpha^8 \beta^{12} - 4 u z \alpha^8 \beta^{12} + 2 u^2 z \alpha^8 \beta^{12} + z^2 \alpha^8 \beta^{12} - \\
& 2 u z^2 \alpha^8 \beta^{12} + u^2 z^2 \alpha^8 \beta^{12} + 4 \alpha^7 \alpha^2 \beta^{12} - 8 u \alpha^7 \alpha^2 \beta^{12} + 4 u^2 \alpha^7 \alpha^2 \beta^{12} + \\
& 8 z \alpha^7 \alpha^2 \beta^{12} - 16 u z \alpha^7 \alpha^2 \beta^{12} + 8 u^2 z \alpha^7 \alpha^2 \beta^{12} + 4 z^2 \alpha^7 \alpha^2 \beta^{12} - 8 u z^2 \alpha^7 \alpha^2 \beta^{12} + \\
& 4 u^2 z^2 \alpha^7 \alpha^2 \beta^{12} + 4 \alpha^6 \alpha^2 \beta^{12} - 8 u \alpha^6 \alpha^2 \beta^{12} + 4 u^2 \alpha^6 \alpha^2 \beta^{12} + 8 z \alpha^6 \alpha^2 \beta^{12} - \\
& 16 u z \alpha^6 \alpha^2 \beta^{12} + 8 u^2 z \alpha^6 \alpha^2 \beta^{12} + 4 z^2 \alpha^6 \alpha^2 \beta^{12} - 8 u z^2 \alpha^6 \alpha^2 \beta^{12} + \\
& 4 u^2 z^2 \alpha^6 \alpha^2 \beta^{12} + 4 u \alpha^5 \alpha^2 \beta^{12} - 4 u^2 \alpha^5 \alpha^2 \beta^{12} + 8 u z \alpha^5 \alpha^2 \beta^{12} - 8 u^2 z \alpha^5 \alpha^2 \beta^{12} + \\
& 4 u z^2 \alpha^5 \alpha^2 \beta^{12} - 4 u^2 z^2 \alpha^5 \alpha^2 \beta^{12} + 10 u \alpha^4 \alpha^2 \beta^{12} - 10 u^2 \alpha^4 \alpha^2 \beta^{12} + \\
& 20 u z \alpha^4 \alpha^2 \beta^{12} - 20 u^2 z \alpha^4 \alpha^2 \beta^{12} + 10 u z^2 \alpha^4 \alpha^2 \beta^{12} - 10 u^2 z^2 \alpha^4 \alpha^2 \beta^{12} + \\
& 4 u \alpha^3 \alpha^2 \beta^{12} - 4 u^2 \alpha^3 \alpha^2 \beta^{12} + 8 u z \alpha^3 \alpha^2 \beta^{12} - 8 u^2 z \alpha^3 \alpha^2 \beta^{12} + 4 u z^2 \alpha^3 \alpha^2 \beta^{12} - \\
& 4 u^2 z^2 \alpha^3 \alpha^2 \beta^{12} + 4 u^2 \alpha^2 \alpha^2 \beta^{12} + 8 u^2 z \alpha^2 \alpha^2 \beta^{12} + 4 u^2 z^2 \alpha^2 \alpha^2 \beta^{12} + \\
& 4 u^2 \alpha^1 \alpha^2 \beta^{12} + 8 u^2 z \alpha^1 \alpha^2 \beta^{12} + 4 u^2 z^2 \alpha^1 \alpha^2 \beta^{12} + u^2 \alpha^2 \beta^{12} + 2 u^2 z \alpha^2 \beta^{12} + \\
& u^2 z^2 \alpha^2 \beta^{12} + 6 \alpha^7 \beta^{13} - 12 u \alpha^7 \beta^{13} + 6 u^2 \alpha^7 \beta^{13} + 4 z \alpha^7 \beta^{13} - 4 u z \alpha^7 \beta^{13} - \\
& 6 z^2 \alpha^7 \beta^{13} + 12 u z^2 \alpha^7 \beta^{13} - 6 u^2 z^2 \alpha^7 \beta^{13} - 4 z^3 \alpha^7 \beta^{13} + 4 u z^3 \alpha^7 \beta^{13} + 24 \alpha^6 \alpha^2 \beta^{13} - \\
& 48 u \alpha^6 \alpha^2 \beta^{13} + 24 u^2 \alpha^6 \alpha^2 \beta^{13} + 14 z \alpha^6 \alpha^2 \beta^{13} - 14 u z \alpha^6 \alpha^2 \beta^{13} - 24 z^2 \alpha^6 \alpha^2 \beta^{13} + \\
& 48 u z^2 \alpha^6 \alpha^2 \beta^{13} - 24 u^2 z^2 \alpha^6 \alpha^2 \beta^{13} - 14 z^3 \alpha^6 \alpha^2 \beta^{13} + 14 u z^3 \alpha^6 \alpha^2 \beta^{13} + \\
& 24 \alpha^5 \alpha^2 \beta^{13} - 36 u \alpha^5 \alpha^2 \beta^{13} + 12 u^2 \alpha^5 \alpha^2 \beta^{13} + 6 z \alpha^5 \alpha^2 \beta^{13} - 6 u z \alpha^5 \alpha^2 \beta^{13} - \\
& 24 z^2 \alpha^5 \alpha^2 \beta^{13} + 36 u z^2 \alpha^5 \alpha^2 \beta^{13} - 12 u^2 z^2 \alpha^5 \alpha^2 \beta^{13} - 6 z^3 \alpha^5 \alpha^2 \beta^{13} + \\
& 6 u z^3 \alpha^5 \alpha^2 \beta^{13} + 42 u \alpha^4 \alpha^2 \beta^{13} - 42 u^2 \alpha^4 \alpha^2 \beta^{13} - 16 z \alpha^4 \alpha^2 \beta^{13} + 8 u z \alpha^4 \alpha^2 \beta^{13} - \\
& 42 u z^2 \alpha^4 \alpha^2 \beta^{13} + 42 u^2 z^2 \alpha^4 \alpha^2 \beta^{13} + 16 z^3 \alpha^4 \alpha^2 \beta^{13} - 8 u z^3 \alpha^4 \alpha^2 \beta^{13} + \\
& 42 u \alpha^3 \alpha^2 \beta^{13} - 42 u^2 \alpha^3 \alpha^2 \beta^{13} - 8 z \alpha^3 \alpha^2 \beta^{13} - 8 u z \alpha^3 \alpha^2 \beta^{13} - 42 u z^2 \alpha^3 \alpha^2 \beta^{13} + \\
& 42 u^2 z^2 \alpha^3 \alpha^2 \beta^{13} + 8 z^3 \alpha^3 \alpha^2 \beta^{13} + 8 u z^3 \alpha^3 \alpha^2 \beta^{13} + 12 u \alpha^2 \alpha^2 \beta^{13} + \\
& 12 u^2 \alpha^2 \alpha^2 \beta^{13} + 6 u z \alpha^2 \alpha^2 \beta^{13} - 12 u z^2 \alpha^2 \alpha^2 \beta^{13} - 12 u^2 z^2 \alpha^2 \alpha^2 \beta^{13} - \\
& 6 u z^3 \alpha^2 \alpha^2 \beta^{13} + 24 u^2 \alpha^1 \alpha^2 \beta^{13} + 14 u z \alpha^1 \alpha^2 \beta^{13} - 24 u^2 z \alpha^1 \alpha^2 \beta^{13} - \\
& 14 u z^2 \alpha^1 \alpha^2 \beta^{13} + 6 u^2 z^2 \alpha^1 \alpha^2 \beta^{13} + 4 u z^3 \alpha^1 \alpha^2 \beta^{13} + 15 \alpha^1 \beta^{14} - \\
& 26 u \alpha^1 \beta^{14} + 7 u^2 \alpha^1 \beta^{14} + 4 u^3 \alpha^1 \beta^{14} - 6 z \alpha^1 \beta^{14} + 12 u z \alpha^1 \beta^{14} + 6 u^2 z \alpha^1 \beta^{14} - \\
& 12 u^3 z \alpha^1 \beta^{14} - 17 z^2 \alpha^1 \beta^{14} + 18 u z^2 \alpha^1 \beta^{14} + 3 u^2 z^2 \alpha^1 \beta^{14} + 4 z^3 \alpha^1 \beta^{14} - \\
& 12 u z^3 \alpha^1 \beta^{14} + 4 z^4 \alpha^1 \beta^{14} + 60 \alpha^5 \alpha^2 \beta^{14} - 108 u \alpha^5 \alpha^2 \beta^{14} + 48 u^2 \alpha^5 \alpha^2 \beta^{14} - \\
& 30 z \alpha^5 \alpha^2 \beta^{14} + 54 u z \alpha^5 \alpha^2 \beta^{14} - 24 u^2 z \alpha^5 \alpha^2 \beta^{14} - 60 z^2 \alpha^5 \alpha^2 \beta^{14} + 96 u z^2 \alpha^5 \alpha^2 \beta^{14} - \\
& 24 u^2 z^2 \alpha^5 \alpha^2 \beta^{14} + 18 z^3 \alpha^5 \alpha^2 \beta^{14} - 42 u z^3 \alpha^5 \alpha^2 \beta^{14} + 12 z^4 \alpha^5 \alpha^2 \beta^{14} + 60 \alpha^4 \alpha^2 \beta^{14} - \\
& 66 u \alpha^4 \alpha^2 \beta^{14} + 18 u^2 \alpha^4 \alpha^2 \beta^{14} - 12 u^3 \alpha^4 \alpha^2 \beta^{14} - 54 z \alpha^4 \alpha^2 \beta^{14} + 42 u z \alpha^4 \alpha^2 \beta^{14} - \\
& 48 u^2 z \alpha^4 \alpha^2 \beta^{14} + 36 u^3 z \alpha^4 \alpha^2 \beta^{14} - 27 z^2 \alpha^4 \alpha^2 \beta^{14} + 90 u z^2 \alpha^4 \alpha^2 \beta^{14} - \\
& 18 u^2 z^2 \alpha^4 \alpha^2 \beta^{14} + 24 z^3 \alpha^4 \alpha^2 \beta^{14} - 42 u z^3 \alpha^4 \alpha^2 \beta^{14} - 3 z^4 \alpha^4 \alpha^2 \beta^{14} + \\
& 122 u \alpha^3 \alpha^2 \beta^{14} - 122 u^2 \alpha^3 \alpha^2 \beta^{14} - 48 z \alpha^3 \alpha^2 \beta^{14} - 60 u z \alpha^3 \alpha^2 \beta^{14} + \\
& 60 u^2 z \alpha^3 \alpha^2 \beta^{14} + 70 z^2 \alpha^3 \alpha^2 \beta^{14} - 78 u z^2 \alpha^3 \alpha^2 \beta^{14} + 78 u^2 z^2 \alpha^3 \alpha^2 \beta^{14} + \\
& 4 z^3 \alpha^3 \alpha^2 \beta^{14} - 26 z^4 \alpha^3 \alpha^2 \beta^{14} + 66 u \alpha^2 \alpha^2 \beta^{14} - 18 u^2 \alpha^2 \alpha^2 \beta^{14} + 12 u^3 \alpha^2 \alpha^2 \beta^{14} - \\
& 24 z \alpha^2 \alpha^2 \beta^{14} - 54 u z \alpha^2 \alpha^2 \beta^{14} + 60 u^2 z \alpha^2 \alpha^2 \beta^{14} - 36 u^3 z \alpha^2 \alpha^2 \beta^{14} + \\
& 45 z^2 \alpha^2 \alpha^2 \beta^{14} - 54 u z^2 \alpha^2 \alpha^2 \beta^{14} - 18 u^2 z^2 \alpha^2 \alpha^2 \beta^{14} - 18 z^3 \alpha^2 \alpha^2 \beta^{14} + \\
& 42 u z^3 \alpha^2 \alpha^2 \beta^{14} - 3 z^4 \alpha^2 \alpha^2 \beta^{14} + 12 u \alpha^1 \alpha^2 \beta^{14} + 48 u^2 \alpha^1 \alpha^2 \beta^{14} - 6 u z \alpha^1 \alpha^2 \beta^{14} - \\
& 24 u^2 z \alpha^1 \alpha^2 \beta^{14} + 12 z^2 \alpha^1 \alpha^2 \beta^{14} - 48 u z^2 \alpha^1 \alpha^2 \beta^{14} - 24 u^2 z^2 \alpha^1 \alpha^2 \beta^{14} - \\
& 24 z^3 \alpha^1 \alpha^2 \beta^{14} + 42 u z^3 \alpha^1 \alpha^2 \beta^{14} + 12 z^4 \alpha^1 \alpha^2 \beta^{14} + 19 u^2 \alpha^2 \beta^{14} - 4 u^3 \alpha^2 \beta^{14} + \\
& 12 u z \alpha^2 \beta^{14} - 30 u^2 z \alpha^2 \beta^{14} + 12 u^3 z \alpha^2 \beta^{14} + 4 z^2 \alpha^2 \beta^{14} - 24 u z^2 \alpha^2 \beta^{14} + \\
& 3 u^2 z^2 \alpha^2 \beta^{14} - 8 z^3 \alpha^2 \beta^{14} + 12 u z^3 \alpha^2 \beta^{14} + 4 z^4 \alpha^2 \beta^{14} + 20 \alpha^5 \beta^{15} - 24 u \alpha^5 \beta^{15} - \\
& 8 u^2 \alpha^5 \beta^{15} + 12 u^3 \alpha^5 \beta^{15} - 24 z \alpha^5 \beta^{15} + 24 u z \alpha^5 \beta^{15} + 12 u^2 z \alpha^5 \beta^{15} - 12 u^3 z \alpha^5 \beta^{15} - \\
& 8 z^2 \alpha^5 \beta^{15} + 12 u z^2 \alpha^5 \beta^{15} - 4 u^2 z^2 \alpha^5 \beta^{15} + 12 z^3 \alpha^5 \beta^{15} - 12 u z^3 \alpha^5 \beta^{15} + \\
& 80 \alpha^4 \alpha^2 \beta^{15} - 114 u \alpha^4 \alpha^2 \beta^{15} + 34 u^2 \alpha^4 \alpha^2 \beta^{15} - 102 z \alpha^4 \alpha^2 \beta^{15} + 114 u z \alpha^4 \alpha^2 \beta^{15} -
\end{aligned}$$

$$\begin{aligned}
& 36 u^2 z \alpha^{14} \alpha^2 \beta^{15} - 20 z^2 \alpha^{14} \alpha^2 \beta^{15} + 66 u z^2 \alpha^{14} \alpha^2 \beta^{15} + 2 u^2 z^2 \alpha^{14} \alpha^2 \beta^{15} + \\
& 42 z^3 \alpha^{14} \alpha^2 \beta^{15} - 66 u z^3 \alpha^{14} \alpha^2 \beta^{15} + 80 \alpha^{13} \alpha^2 \beta^{15} - 66 u \alpha^{13} \alpha^2 \beta^{15} + 46 u^2 \alpha^{13} \alpha^2 \beta^{15} - \\
& 60 u^3 \alpha^{13} \alpha^2 \beta^{15} - 126 z \alpha^{13} \alpha^2 \beta^{15} + 66 u z \alpha^{13} \alpha^2 \beta^{15} - 48 u^2 z \alpha^{13} \alpha^2 \beta^{15} + \\
& 60 u^3 z \alpha^{13} \alpha^2 \beta^{15} + 28 z^2 \alpha^{13} \alpha^2 \beta^{15} + 66 u z^2 \alpha^{13} \alpha^2 \beta^{15} + 2 u^2 z^2 \alpha^{13} \alpha^2 \beta^{15} + \\
& 18 z^3 \alpha^{13} \alpha^2 \beta^{15} - 66 u z^3 \alpha^{13} \alpha^2 \beta^{15} + 154 u \alpha^{12} \alpha^2 \beta^{15} - 134 u^2 \alpha^{12} \alpha^2 \beta^{15} + \\
& 60 u^3 \alpha^{12} \alpha^2 \beta^{15} - 48 z \alpha^{12} \alpha^2 \beta^{15} - 150 u z \alpha^{12} \alpha^2 \beta^{15} + 132 u^2 z \alpha^{12} \alpha^2 \beta^{15} - \\
& 60 u^3 z \alpha^{12} \alpha^2 \beta^{15} + 96 z^2 \alpha^{12} \alpha^2 \beta^{15} - 70 u z^2 \alpha^{12} \alpha^2 \beta^{15} + 2 u^2 z^2 \alpha^{12} \alpha^2 \beta^{15} - \\
& 48 z^3 \alpha^{12} \alpha^2 \beta^{15} + 66 u z^3 \alpha^{12} \alpha^2 \beta^{15} + 46 u \alpha^1 \alpha^2 \beta^{15} + 34 u^2 \alpha^1 \alpha^2 \beta^{15} - 24 z \alpha^1 \alpha^2 \beta^{15} - \\
& 42 u z \alpha^1 \alpha^2 \beta^{15} - 36 u^2 z \alpha^1 \alpha^2 \beta^{15} + 48 z^2 \alpha^1 \alpha^2 \beta^{15} - 70 u z^2 \alpha^1 \alpha^2 \beta^{15} + \\
& 2 u^2 z^2 \alpha^1 \alpha^2 \beta^{15} - 24 z^3 \alpha^1 \alpha^2 \beta^{15} + 66 u z^3 \alpha^1 \alpha^2 \beta^{15} + 4 u \alpha^2 \beta^{15} + 28 u^2 \alpha^2 \beta^{15} - \\
& 12 u^3 \alpha^2 \beta^{15} - 12 u z \alpha^2 \beta^{15} - 24 u^2 z \alpha^2 \beta^{15} + 12 u^3 z \alpha^2 \beta^{15} - 4 u z^2 \alpha^2 \beta^{15} - \\
& 4 u^2 z^2 \alpha^2 \beta^{15} + 12 u z^3 \alpha^2 \beta^{15} + 15 \alpha^{14} \beta^{16} - 6 u \alpha^{14} \beta^{16} - 17 u^2 \alpha^{14} \beta^{16} + 4 u^3 \alpha^{14} \beta^{16} + \\
& 4 u^4 \alpha^{14} \beta^{16} - 26 z \alpha^{14} \beta^{16} + 12 u z \alpha^{14} \beta^{16} + 18 u^2 z \alpha^{14} \beta^{16} - 12 u^3 z \alpha^{14} \beta^{16} + 7 z^2 \alpha^{14} \beta^{16} + \\
& 6 u z^2 \alpha^{14} \beta^{16} + 3 u^2 z^2 \alpha^{14} \beta^{16} + 4 z^3 \alpha^{14} \beta^{16} - 12 u z^3 \alpha^{14} \beta^{16} + 60 \alpha^{13} \alpha^2 \beta^{16} - \\
& 54 u \alpha^{13} \alpha^2 \beta^{16} + 2 u^2 \alpha^{13} \alpha^2 \beta^{16} + 8 u^3 \alpha^{13} \alpha^2 \beta^{16} - 16 u^4 \alpha^{13} \alpha^2 \beta^{16} - 106 z \alpha^{13} \alpha^2 \beta^{16} + \\
& 78 u z \alpha^{13} \alpha^2 \beta^{16} - 12 u^2 z \alpha^{13} \alpha^2 \beta^{16} + 24 u^3 z \alpha^{13} \alpha^2 \beta^{16} + 32 z^2 \alpha^{13} \alpha^2 \beta^{16} + \\
& 6 u z^2 \alpha^{13} \alpha^2 \beta^{16} - 6 u^2 z^2 \alpha^{13} \alpha^2 \beta^{16} + 14 z^3 \alpha^{13} \alpha^2 \beta^{16} - 30 u z^3 \alpha^{13} \alpha^2 \beta^{16} + \\
& 60 \alpha^{12} \alpha^2 \beta^{16} - 42 u \alpha^{12} \alpha^2 \beta^{16} + 66 u^2 \alpha^{12} \alpha^2 \beta^{16} - 48 u^3 \alpha^{12} \alpha^2 \beta^{16} + 24 u^4 \alpha^{12} \alpha^2 \beta^{16} - \\
& 114 z \alpha^{12} \alpha^2 \beta^{16} + 48 u z \alpha^{12} \alpha^2 \beta^{16} - 48 u^2 z \alpha^{12} \alpha^2 \beta^{16} + 48 z^2 \alpha^{12} \alpha^2 \beta^{16} - \\
& 6 u z^2 \alpha^{12} \alpha^2 \beta^{16} + 6 u^2 z^2 \alpha^{12} \alpha^2 \beta^{16} + 6 z^3 \alpha^{12} \alpha^2 \beta^{16} + 90 u \alpha^1 \alpha^2 \beta^{16} - 70 u^2 \alpha^1 \alpha^2 \beta^{16} + \\
& 56 u^3 \alpha^1 \alpha^2 \beta^{16} - 16 u^4 \alpha^1 \alpha^2 \beta^{16} - 16 z \alpha^1 \alpha^2 \beta^{16} - 126 u z \alpha^1 \alpha^2 \beta^{16} + 60 u^2 z \alpha^1 \alpha^2 \beta^{16} - \\
& 24 u^3 z \alpha^1 \alpha^2 \beta^{16} + 32 z^2 \alpha^1 \alpha^2 \beta^{16} + 6 u z^2 \alpha^1 \alpha^2 \beta^{16} - 6 u^2 z^2 \alpha^1 \alpha^2 \beta^{16} - 16 z^3 \alpha^1 \alpha^2 \beta^{16} + \\
& 30 u z^3 \alpha^1 \alpha^2 \beta^{16} + 12 u \alpha^2 \beta^{16} + 19 u^2 \alpha^2 \beta^{16} - 20 u^3 \alpha^2 \beta^{16} + 4 u^4 \alpha^2 \beta^{16} - 8 z \alpha^2 \beta^{16} - \\
& 12 u z \alpha^2 \beta^{16} - 18 u^2 z \alpha^2 \beta^{16} + 12 u^3 z \alpha^2 \beta^{16} + 16 z^2 \alpha^2 \beta^{16} - 12 u z^2 \alpha^2 \beta^{16} + \\
& 3 u^2 z^2 \alpha^2 \beta^{16} - 8 z^3 \alpha^2 \beta^{16} + 12 u z^3 \alpha^2 \beta^{16} + 6 \alpha^{13} \beta^{17} + 4 u \alpha^{13} \beta^{17} - 6 u^2 \alpha^{13} \beta^{17} - \\
& 4 u^3 \alpha^{13} \beta^{17} - 12 z \alpha^{13} \beta^{17} - 4 u z \alpha^{13} \beta^{17} + 12 u^2 z \alpha^{13} \beta^{17} + 4 u^3 z \alpha^{13} \beta^{17} + 6 z^2 \alpha^{13} \beta^{17} - \\
& 6 u^2 z^2 \alpha^{13} \beta^{17} + 24 \alpha^{12} \alpha^2 \beta^{17} - 6 u \alpha^{12} \alpha^2 \beta^{17} - 6 u^2 \alpha^{12} \alpha^2 \beta^{17} + 12 u^3 \alpha^{12} \alpha^2 \beta^{17} - \\
& 48 z \alpha^{12} \alpha^2 \beta^{17} + 12 u z \alpha^{12} \alpha^2 \beta^{17} - 12 u^2 z \alpha^{12} \alpha^2 \beta^{17} + 24 z^2 \alpha^{12} \alpha^2 \beta^{17} - 6 u z^2 \alpha^{12} \alpha^2 \beta^{17} + \\
& 6 u^2 z^2 \alpha^{12} \alpha^2 \beta^{17} + 24 \alpha^1 \alpha^2 \beta^{17} - 18 u \alpha^1 \alpha^2 \beta^{17} + 30 u^2 \alpha^1 \alpha^2 \beta^{17} - 12 u^3 \alpha^1 \alpha^2 \beta^{17} - \\
& 48 z \alpha^1 \alpha^2 \beta^{17} + 24 u z \alpha^1 \alpha^2 \beta^{17} - 36 u^2 z \alpha^1 \alpha^2 \beta^{17} + 12 u^3 z \alpha^1 \alpha^2 \beta^{17} + \\
& 24 z^2 \alpha^1 \alpha^2 \beta^{17} - 6 u z^2 \alpha^1 \alpha^2 \beta^{17} + 6 u^2 z^2 \alpha^1 \alpha^2 \beta^{17} + 20 u \alpha^2 \beta^{17} - 18 u^2 \alpha^2 \beta^{17} + \\
& 4 u^3 \alpha^2 \beta^{17} - 32 u z \alpha^2 \beta^{17} + 24 u^2 z \alpha^2 \beta^{17} - 4 u^3 z \alpha^2 \beta^{17} + 12 u z^2 \alpha^2 \beta^{17} - \\
& 6 u^2 z^2 \alpha^2 \beta^{17} + \alpha^{12} \beta^{18} + 2 u \alpha^{12} \beta^{18} + u^2 \alpha^{12} \beta^{18} - 2 z \alpha^{12} \beta^{18} - 4 u z \alpha^{12} \beta^{18} - \\
& 2 u^2 z \alpha^{12} \beta^{18} + z^2 \alpha^{12} \beta^{18} + 2 u z^2 \alpha^{12} \beta^{18} + u^2 z^2 \alpha^{12} \beta^{18} + 4 \alpha^1 \alpha^2 \beta^{18} + 2 u \alpha^1 \alpha^2 \beta^{18} - \\
& 2 u^2 \alpha^1 \alpha^2 \beta^{18} - 8 z \alpha^1 \alpha^2 \beta^{18} - 4 u z \alpha^1 \alpha^2 \beta^{18} + 4 u^2 z \alpha^1 \alpha^2 \beta^{18} + 4 z^2 \alpha^1 \alpha^2 \beta^{18} + \\
& 2 u z^2 \alpha^1 \alpha^2 \beta^{18} - 2 u^2 z^2 \alpha^1 \alpha^2 \beta^{18} + 4 \alpha^2 \beta^{18} - 4 u \alpha^2 \beta^{18} + u^2 \alpha^2 \beta^{18} - 8 z \alpha^2 \beta^{18} + \\
& 8 u z \alpha^2 \beta^{18} - 2 u^2 z \alpha^2 \beta^{18} + 4 z^2 \alpha^2 \beta^{18} - 4 u z^2 \alpha^2 \beta^{18} + u^2 z^2 \alpha^2 \beta^{18} + 4 \alpha^{18} \beta^1 \beta^2 - \\
& 8 u \alpha^{18} \beta^1 \beta^2 + 4 u^2 \alpha^{18} \beta^1 \beta^2 + 2 z \alpha^{18} \beta^1 \beta^2 - 4 u z \alpha^{18} \beta^1 \beta^2 + 2 u^2 z \alpha^{18} \beta^1 \beta^2 - \\
& 2 z^2 \alpha^{18} \beta^1 \beta^2 + 4 u z^2 \alpha^{18} \beta^1 \beta^2 - 2 u^2 z^2 \alpha^{18} \beta^1 \beta^2 + 16 \alpha^{17} \alpha^2 \beta^1 \beta^2 - 32 u \alpha^{17} \alpha^2 \beta^1 \beta^2 + \\
& 16 u^2 \alpha^{17} \alpha^2 \beta^1 \beta^2 + 8 z \alpha^{17} \alpha^2 \beta^1 \beta^2 - 16 u z \alpha^{17} \alpha^2 \beta^1 \beta^2 + 8 u^2 z \alpha^{17} \alpha^2 \beta^1 \beta^2 - \\
& 8 z^2 \alpha^{17} \alpha^2 \beta^1 \beta^2 + 16 u z^2 \alpha^{17} \alpha^2 \beta^1 \beta^2 - 8 u^2 z^2 \alpha^{17} \alpha^2 \beta^1 \beta^2 + 16 \alpha^{16} \alpha^2 \beta^1 \beta^2 - \\
& 32 u \alpha^{16} \alpha^2 \beta^1 \beta^2 + 16 u^2 \alpha^{16} \alpha^2 \beta^1 \beta^2 + 8 z \alpha^{16} \alpha^2 \beta^1 \beta^2 - 16 u z \alpha^{16} \alpha^2 \beta^1 \beta^2 + \\
& 8 u^2 z \alpha^{16} \alpha^2 \beta^1 \beta^2 - 8 z^2 \alpha^{16} \alpha^2 \beta^1 \beta^2 + 16 u z^2 \alpha^{16} \alpha^2 \beta^1 \beta^2 - 8 u^2 z^2 \alpha^{16} \alpha^2 \beta^1 \beta^2 + \\
& 16 u \alpha^{15} \alpha^2 \beta^1 \beta^2 - 16 u^2 \alpha^{15} \alpha^2 \beta^1 \beta^2 + 8 u z \alpha^{15} \alpha^2 \beta^1 \beta^2 - 8 u^2 z \alpha^{15} \alpha^2 \beta^1 \beta^2 - \\
& 8 u z^2 \alpha^{15} \alpha^2 \beta^1 \beta^2 + 8 u^2 z^2 \alpha^{15} \alpha^2 \beta^1 \beta^2 + 40 u \alpha^{14} \alpha^2 \beta^1 \beta^2 - 40 u^2 \alpha^{14} \alpha^2 \beta^1 \beta^2 + \\
& 20 u z \alpha^{14} \alpha^2 \beta^1 \beta^2 - 20 u^2 z \alpha^{14} \alpha^2 \beta^1 \beta^2 - 20 u z^2 \alpha^{14} \alpha^2 \beta^1 \beta^2 + 20 u^2 z^2 \alpha^{14} \alpha^2 \beta^1 \beta^2 + \\
& 16 u \alpha^{13} \alpha^2 \beta^1 \beta^2 - 16 u^2 \alpha^{13} \alpha^2 \beta^1 \beta^2 + 8 u z \alpha^{13} \alpha^2 \beta^1 \beta^2 - 8 u^2 z \alpha^{13} \alpha^2 \beta^1 \beta^2 -
\end{aligned}$$

$$\begin{aligned}
& 8 u z^2 \alpha^3 \alpha^5 \beta^1 \beta^2 + 8 u^2 z^2 \alpha^3 \alpha^5 \beta^1 \beta^2 + 16 u^2 \alpha^1 \alpha^2 \alpha^6 \beta^1 \beta^2 + 8 u^2 z \alpha^1 \alpha^2 \alpha^6 \beta^1 \beta^2 - \\
& 8 u^2 z^2 \alpha^1 \alpha^2 \alpha^6 \beta^1 \beta^2 + 16 u^2 \alpha^1 \alpha^2 \alpha^7 \beta^1 \beta^2 + 8 u^2 z \alpha^1 \alpha^2 \alpha^7 \beta^1 \beta^2 - 8 u^2 z^2 \alpha^1 \alpha^2 \alpha^7 \beta^1 \beta^2 + \\
& 4 u^2 \alpha^2 \alpha^8 \beta^1 \beta^2 + 2 u^2 z \alpha^2 \alpha^8 \beta^1 \beta^2 - 2 u^2 z^2 \alpha^2 \alpha^8 \beta^1 \beta^2 + 24 \alpha^1 \alpha^7 \beta^1 \beta^2 - 48 u \alpha^1 \alpha^7 \beta^1 \beta^2 + \\
& 24 u^2 \alpha^1 \alpha^7 \beta^1 \beta^2 - 6 z \alpha^1 \alpha^7 \beta^1 \beta^2 + 12 u z \alpha^1 \alpha^7 \beta^1 \beta^2 - 6 u^2 z \alpha^1 \alpha^7 \beta^1 \beta^2 - 6 z^2 \alpha^1 \alpha^7 \beta^1 \beta^2 + \\
& 6 u^2 z^2 \alpha^1 \alpha^7 \beta^1 \beta^2 + 12 z^3 \alpha^1 \alpha^7 \beta^1 \beta^2 - 12 u z^3 \alpha^1 \alpha^7 \beta^1 \beta^2 + 96 \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 - \\
& 192 u \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 + 96 u^2 \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 - 24 z \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 + 48 u z \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 - \\
& 24 u^2 z \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 - 18 z^2 \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 - 6 u z^2 \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 + 24 u^2 z^2 \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 + \\
& 42 z^3 \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 - 42 u z^3 \alpha^1 \alpha^6 \alpha^2 \beta^1 \beta^2 + 96 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - 144 u \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + \\
& 48 u^2 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - 24 z \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + 36 u z \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - 12 u^2 z \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + \\
& 6 z^2 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - 18 u z^2 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + 12 u^2 z^2 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + 18 z^3 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - \\
& 18 u z^3 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + 168 u \alpha^1 \alpha^4 \alpha^3 \beta^1 \beta^2 - 168 u^2 \alpha^1 \alpha^4 \alpha^3 \beta^1 \beta^2 - 42 u z \alpha^1 \alpha^4 \alpha^3 \beta^1 \beta^2 + \\
& 42 u^2 z \alpha^1 \alpha^4 \alpha^3 \beta^1 \beta^2 + 48 z^2 \alpha^1 \alpha^4 \alpha^3 \beta^1 \beta^2 + 18 u z^2 \alpha^1 \alpha^4 \alpha^3 \beta^1 \beta^2 - 42 u^2 z^2 \alpha^1 \alpha^4 \alpha^3 \beta^1 \beta^2 - \\
& 48 z^3 \alpha^1 \alpha^4 \alpha^3 \beta^1 \beta^2 + 24 u z^3 \alpha^1 \alpha^4 \alpha^3 \beta^1 \beta^2 + 168 u \alpha^1 \alpha^3 \alpha^4 \beta^1 \beta^2 - 168 u^2 \alpha^1 \alpha^3 \alpha^4 \beta^1 \beta^2 - \\
& 42 u z \alpha^1 \alpha^3 \alpha^4 \beta^1 \beta^2 + 42 u^2 z \alpha^1 \alpha^3 \alpha^4 \beta^1 \beta^2 + 24 z^2 \alpha^1 \alpha^3 \alpha^4 \beta^1 \beta^2 + 66 u z^2 \alpha^1 \alpha^3 \alpha^4 \beta^1 \beta^2 - \\
& 42 u^2 z^2 \alpha^1 \alpha^3 \alpha^4 \beta^1 \beta^2 - 24 z^3 \alpha^1 \alpha^3 \alpha^4 \beta^1 \beta^2 - 24 u z^3 \alpha^1 \alpha^3 \alpha^4 \beta^1 \beta^2 + 48 u \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 + \\
& 48 u^2 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 - 12 u z \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 - 12 u^2 z \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 - 6 u z^2 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 + \\
& 12 u^2 z^2 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 + 18 u z^3 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 + 96 u^2 \alpha^1 \alpha^2 \alpha^6 \beta^1 \beta^2 - 24 u^2 z \alpha^1 \alpha^2 \alpha^6 \beta^1 \beta^2 - \\
& 42 u z^2 \alpha^1 \alpha^2 \alpha^6 \beta^1 \beta^2 + 24 u^2 z^2 \alpha^1 \alpha^2 \alpha^6 \beta^1 \beta^2 + 42 u z^3 \alpha^1 \alpha^2 \alpha^6 \beta^1 \beta^2 + 24 u^2 z^3 \alpha^1 \alpha^2 \alpha^6 \beta^1 \beta^2 - \\
& 6 u^2 z^3 \alpha^1 \alpha^2 \alpha^6 \beta^1 \beta^2 - 12 u z^2 \alpha^1 \alpha^2 \alpha^7 \beta^1 \beta^2 + 6 u^2 z^2 \alpha^1 \alpha^2 \alpha^7 \beta^1 \beta^2 + 12 u z^3 \alpha^1 \alpha^2 \alpha^7 \beta^1 \beta^2 + \\
& 60 \alpha^1 \alpha^6 \beta^1 \beta^2 - 106 u \alpha^1 \alpha^6 \beta^1 \beta^2 + 32 u^2 \alpha^1 \alpha^6 \beta^1 \beta^2 + 14 u^3 \alpha^1 \alpha^6 \beta^1 \beta^2 - 54 z \alpha^1 \alpha^6 \beta^1 \beta^2 + \\
& 78 u z \alpha^1 \alpha^6 \beta^1 \beta^2 + 6 u^2 z \alpha^1 \alpha^6 \beta^1 \beta^2 - 30 u^3 z \alpha^1 \alpha^6 \beta^1 \beta^2 + 2 z^2 \alpha^1 \alpha^6 \beta^1 \beta^2 - 12 u z^2 \alpha^1 \alpha^6 \beta^1 \beta^2 - \\
& 6 u^2 z^2 \alpha^1 \alpha^6 \beta^1 \beta^2 + 8 z^3 \alpha^1 \alpha^6 \beta^1 \beta^2 + 24 u z^3 \alpha^1 \alpha^6 \beta^1 \beta^2 - 16 z^4 \alpha^1 \alpha^6 \beta^1 \beta^2 + 240 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - \\
& 432 u \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + 192 u^2 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - 216 z \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + 372 u z \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - \\
& 156 u^2 z \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + 12 z^2 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - 24 u z^2 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - 36 u^2 z^2 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + \\
& 12 z^3 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + 84 u z^3 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 - 48 z^4 \alpha^1 \alpha^5 \alpha^2 \beta^1 \beta^2 + 240 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - \\
& 258 u \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + 60 u^2 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - 42 u^3 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - 216 z \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + \\
& 276 u z \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - 150 u^2 z \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + 90 u^3 z \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + \\
& 24 z^2 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - 54 u z^2 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - 6 u^2 z^2 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - 60 z^3 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + \\
& 84 u z^3 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + 12 z^4 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + 484 u \alpha^1 \alpha^3 \alpha^3 \beta^1 \beta^2 - 484 u^2 \alpha^1 \alpha^3 \alpha^3 \beta^1 \beta^2 - \\
& 420 u z \alpha^1 \alpha^3 \alpha^3 \beta^1 \beta^2 + 420 u^2 z \alpha^1 \alpha^3 \alpha^3 \beta^1 \beta^2 + 8 z^2 \alpha^1 \alpha^3 \alpha^3 \beta^1 \beta^2 - 96 u z^2 \alpha^1 \alpha^3 \alpha^3 \beta^1 \beta^2 + \\
& 96 u^2 z^2 \alpha^1 \alpha^3 \alpha^3 \beta^1 \beta^2 - 112 z^3 \alpha^1 \alpha^3 \alpha^3 \beta^1 \beta^2 + 104 z^4 \alpha^1 \alpha^3 \alpha^3 \beta^1 \beta^2 + \\
& 264 u \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 - 66 u^2 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 + 42 u^3 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 - 246 u z \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 + \\
& 120 u^2 z \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 - 90 u^3 z \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 - 36 z^2 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 + 66 u z^2 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 - \\
& 6 u^2 z^2 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 + 24 z^3 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 - 84 u z^3 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 + 12 z^4 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 + \\
& 48 u \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 + 192 u^2 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 - 60 u z \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 - 156 u^2 z \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 - \\
& 48 z^2 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 + 96 u z^2 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 - 36 u^2 z^2 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 + 96 z^3 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 - \\
& 84 u z^3 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 - 48 z^4 \alpha^1 \alpha^2 \alpha^5 \beta^1 \beta^2 + 74 u^2 \alpha^2 \alpha^6 \beta^1 \beta^2 - 14 u^3 \alpha^2 \alpha^6 \beta^1 \beta^2 - \\
& 84 u^2 z \alpha^2 \alpha^6 \beta^1 \beta^2 + 30 u^3 z \alpha^2 \alpha^6 \beta^1 \beta^2 - 16 z^2 \alpha^2 \alpha^6 \beta^1 \beta^2 + 24 u z^2 \alpha^2 \alpha^6 \beta^1 \beta^2 - \\
& 6 u^2 z^2 \alpha^2 \alpha^6 \beta^1 \beta^2 + 32 z^3 \alpha^2 \alpha^6 \beta^1 \beta^2 - 24 u z^3 \alpha^2 \alpha^6 \beta^1 \beta^2 - 16 z^4 \alpha^2 \alpha^6 \beta^1 \beta^2 + \\
& 80 \alpha^1 \alpha^5 \beta^1 \beta^2 - 102 u \alpha^1 \alpha^5 \beta^1 \beta^2 - 20 u^2 \alpha^1 \alpha^5 \beta^1 \beta^2 + 42 u^3 \alpha^1 \alpha^5 \beta^1 \beta^2 - 114 z \alpha^1 \alpha^5 \beta^1 \beta^2 + \\
& 114 u z \alpha^1 \alpha^5 \beta^1 \beta^2 + 66 u^2 z \alpha^1 \alpha^5 \beta^1 \beta^2 - 66 u^3 z \alpha^1 \alpha^5 \beta^1 \beta^2 + 34 z^2 \alpha^1 \alpha^5 \beta^1 \beta^2 - \\
& 36 u z^2 \alpha^1 \alpha^5 \beta^1 \beta^2 + 2 u^2 z^2 \alpha^1 \alpha^5 \beta^1 \beta^2 + 320 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - 456 u \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + \\
& 136 u^2 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - 456 z \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + 612 u z \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - 156 u^2 z \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + \\
& 136 z^2 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 - 156 u z^2 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + 20 u^2 z^2 \alpha^1 \alpha^4 \alpha^2 \beta^1 \beta^2 + 320 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - \\
& 246 u \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 + 136 u^2 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - 210 u^3 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - 456 z \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 + \\
& 432 u z \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - 306 u^2 z \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 + 330 u^3 z \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 + \\
& 136 z^2 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - 114 u z^2 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - 22 u^2 z^2 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 +
\end{aligned}$$

$$\begin{aligned}
& 604 u \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 - 494 u^2 \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 + 210 u^3 \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 - 810 u z \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 + \\
& 684 u^2 z \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 - 330 u^3 z \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 + 158 u z^2 \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 - \\
& 22 u^2 z^2 \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 + 184 u \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 + 136 u^2 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 - 300 u z \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 - \\
& 156 u^2 z \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 + 116 u z^2 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 + 20 u^2 z^2 \alpha^1 \alpha^2 \alpha^4 \beta^1 \beta^2 + 16 u \alpha^2 \alpha^5 \beta^1 \beta^2 + \\
& 106 u^2 \alpha^2 \alpha^5 \beta^1 \beta^2 - 42 u^3 \alpha^2 \alpha^5 \beta^1 \beta^2 - 48 u z \alpha^2 \alpha^5 \beta^1 \beta^2 - 132 u^2 z \alpha^2 \alpha^5 \beta^1 \beta^2 + \\
& 66 u^3 z \alpha^2 \alpha^5 \beta^1 \beta^2 + 32 u z^2 \alpha^2 \alpha^5 \beta^1 \beta^2 + 2 u^2 z^2 \alpha^2 \alpha^5 \beta^1 \beta^2 + 60 \alpha^1 \alpha^4 \beta^1 \beta^2 - 30 u \alpha^1 \alpha^4 \beta^1 \beta^2 - \\
& 60 u^2 \alpha^1 \alpha^4 \beta^1 \beta^2 + 18 u^3 \alpha^1 \alpha^4 \beta^1 \beta^2 + 12 u^4 \alpha^1 \alpha^4 \beta^1 \beta^2 - 108 z \alpha^1 \alpha^4 \beta^1 \beta^2 + 54 u z \alpha^1 \alpha^4 \beta^1 \beta^2 + \\
& 96 u^2 z \alpha^1 \alpha^4 \beta^1 \beta^2 - 42 u^3 z \alpha^1 \alpha^4 \beta^1 \beta^2 + 48 z^2 \alpha^1 \alpha^4 \beta^1 \beta^2 - 24 u z^2 \alpha^1 \alpha^4 \beta^1 \beta^2 - \\
& 24 u^2 z^2 \alpha^1 \alpha^4 \beta^1 \beta^2 + 240 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - 216 u \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 + 12 u^2 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 + \\
& 12 u^3 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - 48 u^4 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - 432 z \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 + 372 u z \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - \\
& 24 u^2 z \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 + 84 u^3 z \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 + 192 z^2 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - 156 u z^2 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 - \\
& 36 u^2 z^2 \alpha^1 \alpha^3 \alpha^2 \beta^1 \beta^2 + 240 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 150 u \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 222 u^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - \\
& 144 u^3 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 72 u^4 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 432 z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 270 u z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - \\
& 270 u^2 z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 192 z^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 120 u z^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + \\
& 120 u^2 z^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 348 u \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 - 240 u^2 \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 + 180 u^3 \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 - \\
& 48 u^4 \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 - 576 u z \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 + 228 u^2 z \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 - 84 u^3 z \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 + \\
& 228 u z^2 \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 - 36 u^2 z^2 \alpha^1 \alpha^2 \alpha^3 \beta^1 \beta^2 + 48 u \alpha^2 \alpha^4 \beta^1 \beta^2 + 66 u^2 \alpha^2 \alpha^4 \beta^1 \beta^2 - \\
& 66 u^3 \alpha^2 \alpha^4 \beta^1 \beta^2 + 12 u^4 \alpha^2 \alpha^4 \beta^1 \beta^2 - 120 u z \alpha^2 \alpha^4 \beta^1 \beta^2 - 30 u^2 z \alpha^2 \alpha^4 \beta^1 \beta^2 + \\
& 42 u^3 z \alpha^2 \alpha^4 \beta^1 \beta^2 + 72 u z^2 \alpha^2 \alpha^4 \beta^1 \beta^2 - 24 u^2 z^2 \alpha^2 \alpha^4 \beta^1 \beta^2 + 24 \alpha^1 \alpha^3 \beta^1 \beta^2 + \\
& 14 u \alpha^1 \alpha^3 \beta^1 \beta^2 - 24 u^2 \alpha^1 \alpha^3 \beta^1 \beta^2 - 14 u^3 \alpha^1 \alpha^3 \beta^1 \beta^2 - 48 z \alpha^1 \alpha^3 \beta^1 \beta^2 - 14 u z \alpha^1 \alpha^3 \beta^1 \beta^2 + \\
& 48 u^2 z \alpha^1 \alpha^3 \beta^1 \beta^2 + 14 u^3 z \alpha^1 \alpha^3 \beta^1 \beta^2 + 24 z^2 \alpha^1 \alpha^3 \beta^1 \beta^2 - 24 u^2 z^2 \alpha^1 \alpha^3 \beta^1 \beta^2 + \\
& 96 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 24 u \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 18 u^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 42 u^3 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - \\
& 192 z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 48 u z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 6 u^2 z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 42 u^3 z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + \\
& 96 z^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 24 u z^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 24 u^2 z^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 96 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - \\
& 66 u \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 108 u^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 42 u^3 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 192 z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + \\
& 90 u z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - 132 u^2 z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 42 u^3 z \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 96 z^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 - \\
& 24 u z^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 24 u^2 z^2 \alpha^1 \alpha^2 \alpha^2 \beta^1 \beta^2 + 76 u \alpha^2 \alpha^3 \beta^1 \beta^2 - 66 u^2 \alpha^2 \alpha^3 \beta^1 \beta^2 + \\
& 14 u^3 \alpha^2 \alpha^3 \beta^1 \beta^2 - 124 u z \alpha^2 \alpha^3 \beta^1 \beta^2 + 90 u^2 z \alpha^2 \alpha^3 \beta^1 \beta^2 - 14 u^3 z \alpha^2 \alpha^3 \beta^1 \beta^2 + \\
& 48 u z^2 \alpha^2 \alpha^3 \beta^1 \beta^2 - 24 u^2 z^2 \alpha^2 \alpha^3 \beta^1 \beta^2 + 4 \alpha^1 \alpha^2 \beta^1 \beta^2 + 8 u \alpha^1 \alpha^2 \beta^1 \beta^2 + 4 u^2 \alpha^1 \alpha^2 \beta^1 \beta^2 - \\
& 8 z \alpha^1 \alpha^2 \beta^1 \beta^2 - 16 u z \alpha^1 \alpha^2 \beta^1 \beta^2 - 8 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 + 4 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 + 8 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 + \\
& 4 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 + 16 \alpha^1 \alpha^2 \beta^1 \beta^2 + 8 u \alpha^1 \alpha^2 \beta^1 \beta^2 - 8 u^2 \alpha^1 \alpha^2 \beta^1 \beta^2 - 32 z \alpha^1 \alpha^2 \beta^1 \beta^2 - \\
& 16 u z \alpha^1 \alpha^2 \beta^1 \beta^2 + 16 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 + 16 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 + 8 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 - \\
& 8 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 + 16 \alpha^2 \alpha^2 \beta^1 \beta^2 - 16 u \alpha^2 \alpha^2 \beta^1 \beta^2 + 4 u^2 \alpha^2 \alpha^2 \beta^1 \beta^2 - 32 z \alpha^2 \alpha^2 \beta^1 \beta^2 + \\
& 32 u z \alpha^2 \alpha^2 \beta^1 \beta^2 - 8 u^2 z \alpha^2 \alpha^2 \beta^1 \beta^2 + 16 z^2 \alpha^2 \alpha^2 \beta^1 \beta^2 - 16 u z^2 \alpha^2 \alpha^2 \beta^1 \beta^2 + \\
& 4 u^2 z^2 \alpha^2 \alpha^2 \beta^1 \beta^2 + 4 \alpha^1 \alpha^8 \beta^2 - 8 u \alpha^1 \alpha^8 \beta^2 + 4 u^2 \alpha^1 \alpha^8 \beta^2 - 4 z \alpha^1 \alpha^8 \beta^2 + 8 u z \alpha^1 \alpha^8 \beta^2 - \\
& 4 u^2 z \alpha^1 \alpha^8 \beta^2 + z^2 \alpha^1 \alpha^8 \beta^2 - 2 u z^2 \alpha^1 \alpha^8 \beta^2 + u^2 z^2 \alpha^1 \alpha^8 \beta^2 + 16 \alpha^1 \alpha^7 \alpha^2 \beta^2 - 32 u \alpha^1 \alpha^7 \alpha^2 \beta^2 + \\
& 16 u^2 \alpha^1 \alpha^7 \alpha^2 \beta^2 - 16 z \alpha^1 \alpha^7 \alpha^2 \beta^2 + 32 u z \alpha^1 \alpha^7 \alpha^2 \beta^2 - 16 u^2 z \alpha^1 \alpha^7 \alpha^2 \beta^2 + 4 z^2 \alpha^1 \alpha^7 \alpha^2 \beta^2 - \\
& 8 u z^2 \alpha^1 \alpha^7 \alpha^2 \beta^2 + 4 u^2 z^2 \alpha^1 \alpha^7 \alpha^2 \beta^2 + 16 \alpha^1 \alpha^6 \alpha^2 \beta^2 - 32 u \alpha^1 \alpha^6 \alpha^2 \beta^2 + 16 u^2 \alpha^1 \alpha^6 \alpha^2 \beta^2 - \\
& 16 z \alpha^1 \alpha^6 \alpha^2 \beta^2 + 32 u z \alpha^1 \alpha^6 \alpha^2 \beta^2 - 16 u^2 z \alpha^1 \alpha^6 \alpha^2 \beta^2 + 4 z^2 \alpha^1 \alpha^6 \alpha^2 \beta^2 - \\
& 8 u z^2 \alpha^1 \alpha^6 \alpha^2 \beta^2 + 4 u^2 z^2 \alpha^1 \alpha^6 \alpha^2 \beta^2 + 16 u \alpha^1 \alpha^5 \alpha^2 \beta^2 - 16 u^2 \alpha^1 \alpha^5 \alpha^2 \beta^2 - \\
& 16 u z \alpha^1 \alpha^5 \alpha^2 \beta^2 + 16 u^2 z \alpha^1 \alpha^5 \alpha^2 \beta^2 + 4 u z^2 \alpha^1 \alpha^5 \alpha^2 \beta^2 - 4 u^2 z^2 \alpha^1 \alpha^5 \alpha^2 \beta^2 + \\
& 40 u \alpha^1 \alpha^4 \alpha^2 \beta^2 - 40 u^2 \alpha^1 \alpha^4 \alpha^2 \beta^2 - 40 u z \alpha^1 \alpha^4 \alpha^2 \beta^2 + 40 u^2 z \alpha^1 \alpha^4 \alpha^2 \beta^2 + \\
& 10 u z^2 \alpha^1 \alpha^4 \alpha^2 \beta^2 - 10 u^2 z^2 \alpha^1 \alpha^4 \alpha^2 \beta^2 + 16 u \alpha^1 \alpha^3 \alpha^2 \beta^2 - 16 u^2 \alpha^1 \alpha^3 \alpha^2 \beta^2 - \\
& 16 u z \alpha^1 \alpha^3 \alpha^2 \beta^2 + 16 u^2 z \alpha^1 \alpha^3 \alpha^2 \beta^2 + 4 u z^2 \alpha^1 \alpha^3 \alpha^2 \beta^2 - 4 u^2 z^2 \alpha^1 \alpha^3 \alpha^2 \beta^2 + \\
& 16 u^2 \alpha^1 \alpha^2 \alpha^2 \beta^2 - 16 u^2 z \alpha^1 \alpha^2 \alpha^2 \beta^2 + 4 u^2 z^2 \alpha^1 \alpha^2 \alpha^2 \beta^2 + 16 u^2 \alpha^1 \alpha^2 \alpha^2 \beta^2 - \\
& 16 u^2 z \alpha^1 \alpha^2 \alpha^2 \beta^2 + 4 u^2 z^2 \alpha^1 \alpha^2 \alpha^2 \beta^2 + 4 u^2 \alpha^2 \alpha^8 \beta^2 - 4 u^2 z \alpha^2 \alpha^8 \beta^2 + u^2 z^2 \alpha^2 \alpha^8 \beta^2 + \\
& 24 \alpha^1 \alpha^7 \beta^1 \beta^2 - 48 u \alpha^1 \alpha^7 \beta^1 \beta^2 + 24 u^2 \alpha^1 \alpha^7 \beta^1 \beta^2 - 18 z \alpha^1 \alpha^7 \beta^1 \beta^2 + 24 u z \alpha^1 \alpha^7 \beta^1 \beta^2 -
\end{aligned}$$

$$\begin{aligned}
& 6 u^2 z \alpha^{17} \beta_1 \beta_2^2 + 30 z^2 \alpha^{17} \beta_1 \beta_2^2 - 36 u z^2 \alpha^{17} \beta_1 \beta_2^2 + 6 u^2 z^2 \alpha^{17} \beta_1 \beta_2^2 - \\
& 12 z^3 \alpha^{17} \beta_1 \beta_2^2 + 12 u z^3 \alpha^{17} \beta_1 \beta_2^2 + 96 \alpha^{16} \alpha^2 \beta_1 \beta_2^2 - 192 u \alpha^{16} \alpha^2 \beta_1 \beta_2^2 + \\
& 96 u^2 \alpha^{16} \alpha^2 \beta_1 \beta_2^2 - 66 z \alpha^{16} \alpha^2 \beta_1 \beta_2^2 + 90 u z \alpha^{16} \alpha^2 \beta_1 \beta_2^2 - 24 u^2 z \alpha^{16} \alpha^2 \beta_1 \beta_2^2 + \\
& 108 z^2 \alpha^{16} \alpha^2 \beta_1 \beta_2^2 - 132 u z^2 \alpha^{16} \alpha^2 \beta_1 \beta_2^2 + 24 u^2 z^2 \alpha^{16} \alpha^2 \beta_1 \beta_2^2 - 42 z^3 \alpha^{16} \alpha^2 \beta_1 \beta_2^2 + \\
& 42 u z^3 \alpha^{16} \alpha^2 \beta_1 \beta_2^2 + 96 \alpha^{15} \alpha^2 \beta_1 \beta_2^2 - 144 u \alpha^{15} \alpha^2 \beta_1 \beta_2^2 + 48 u^2 \alpha^{15} \alpha^2 \beta_1 \beta_2^2 - \\
& 42 z \alpha^{15} \alpha^2 \beta_1 \beta_2^2 + 54 u z \alpha^{15} \alpha^2 \beta_1 \beta_2^2 - 12 u^2 z \alpha^{15} \alpha^2 \beta_1 \beta_2^2 + 60 z^2 \alpha^{15} \alpha^2 \beta_1 \beta_2^2 - \\
& 72 u z^2 \alpha^{15} \alpha^2 \beta_1 \beta_2^2 + 12 u^2 z^2 \alpha^{15} \alpha^2 \beta_1 \beta_2^2 - 18 z^3 \alpha^{15} \alpha^2 \beta_1 \beta_2^2 + 18 u z^3 \alpha^{15} \alpha^2 \beta_1 \beta_2^2 + \\
& 168 u \alpha^{14} \alpha^2 \beta_1 \beta_2^2 - 168 u^2 \alpha^{14} \alpha^2 \beta_1 \beta_2^2 + 48 z \alpha^{14} \alpha^2 \beta_1 \beta_2^2 - 66 u z \alpha^{14} \alpha^2 \beta_1 \beta_2^2 + \\
& 42 u^2 z \alpha^{14} \alpha^2 \beta_1 \beta_2^2 - 96 z^2 \alpha^{14} \alpha^2 \beta_1 \beta_2^2 + 90 u z^2 \alpha^{14} \alpha^2 \beta_1 \beta_2^2 - 42 u^2 z^2 \alpha^{14} \alpha^2 \beta_1 \beta_2^2 + \\
& 48 z^3 \alpha^{14} \alpha^2 \beta_1 \beta_2^2 - 24 u z^3 \alpha^{14} \alpha^2 \beta_1 \beta_2^2 + 168 u \alpha^{13} \alpha^2 \beta_1 \beta_2^2 - 168 u^2 \alpha^{13} \alpha^2 \beta_1 \beta_2^2 + \\
& 24 z \alpha^{13} \alpha^2 \beta_1 \beta_2^2 - 18 u z \alpha^{13} \alpha^2 \beta_1 \beta_2^2 + 42 u^2 z \alpha^{13} \alpha^2 \beta_1 \beta_2^2 - 48 z^2 \alpha^{13} \alpha^2 \beta_1 \beta_2^2 - \\
& 6 u z^2 \alpha^{13} \alpha^2 \beta_1 \beta_2^2 - 42 u^2 z^2 \alpha^{13} \alpha^2 \beta_1 \beta_2^2 + 24 z^3 \alpha^{13} \alpha^2 \beta_1 \beta_2^2 + 24 u z^3 \alpha^{13} \alpha^2 \beta_1 \beta_2^2 + \\
& 48 u \alpha^{12} \alpha^2 \beta_1 \beta_2^2 + 48 u^2 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 - 30 u z \alpha^{12} \alpha^2 \beta_1 \beta_2^2 - 12 u^2 z \alpha^{12} \alpha^2 \beta_1 \beta_2^2 + \\
& 48 u z^2 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 + 12 u^2 z^2 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 - 18 u z^3 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 + \\
& 96 u^2 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 - 42 u z \alpha^{12} \alpha^2 \beta_1 \beta_2^2 - 24 u^2 z \alpha^{12} \alpha^2 \beta_1 \beta_2^2 + 84 u z^2 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 + \\
& 24 u^2 z^2 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 - 42 u z^3 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 + 24 u^2 z^3 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 - 12 u z \alpha^{12} \alpha^2 \beta_1 \beta_2^2 - \\
& 6 u^2 z \alpha^{12} \alpha^2 \beta_1 \beta_2^2 + 24 u z^2 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 + 6 u^2 z^2 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 - 12 u z^3 \alpha^{12} \alpha^2 \beta_1 \beta_2^2 + \\
& 60 \alpha^{16} \beta_1^2 \beta_2^2 - 114 u \alpha^{16} \beta_1^2 \beta_2^2 + 48 u^2 \alpha^{16} \beta_1^2 \beta_2^2 + 6 u^3 \alpha^{16} \beta_1^2 \beta_2^2 - 42 z \alpha^{16} \beta_1^2 \beta_2^2 + \\
& 48 u z \alpha^{16} \beta_1^2 \beta_2^2 - 6 u^2 z \alpha^{16} \beta_1^2 \beta_2^2 + 66 z^2 \alpha^{16} \beta_1^2 \beta_2^2 - 48 u z^2 \alpha^{16} \beta_1^2 \beta_2^2 + \\
& 6 u^2 z^2 \alpha^{16} \beta_1^2 \beta_2^2 - 48 z^3 \alpha^{16} \beta_1^2 \beta_2^2 + 24 z^4 \alpha^{16} \beta_1^2 \beta_2^2 + 240 \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 432 u \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 + 192 u^2 \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 - 150 z \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 + 270 u z \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 120 u^2 z \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 + 222 z^2 \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 - 270 u z^2 \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 + \\
& 120 u^2 z^2 \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 - 144 z^3 \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 + 72 z^4 \alpha^{15} \alpha^2 \beta_1^2 \beta_2^2 + 240 \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 234 u \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 + 12 u^2 \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 - 18 u^3 \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 - 78 z \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 + \\
& 198 u z \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 - 48 u^2 z \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 + 60 z^2 \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 198 u z^2 \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 + 48 u^2 z^2 \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 + 36 z^3 \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 18 z^4 \alpha^{14} \alpha^2 \beta_1^2 \beta_2^2 + 468 u \alpha^{13} \alpha^2 \beta_1^2 \beta_2^2 - 468 u^2 \alpha^{13} \alpha^2 \beta_1^2 \beta_2^2 + 144 z \alpha^{13} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 348 u z \alpha^{13} \alpha^2 \beta_1^2 \beta_2^2 + 348 u^2 z \alpha^{13} \alpha^2 \beta_1^2 \beta_2^2 - 300 z^2 \alpha^{13} \alpha^2 \beta_1^2 \beta_2^2 + \\
& 348 u z^2 \alpha^{13} \alpha^2 \beta_1^2 \beta_2^2 - 348 u^2 z^2 \alpha^{13} \alpha^2 \beta_1^2 \beta_2^2 + 312 z^3 \alpha^{13} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 156 z^4 \alpha^{13} \alpha^2 \beta_1^2 \beta_2^2 + 264 u \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 - 42 u^2 \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 + 18 u^3 \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 + \\
& 72 z \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 - 102 u z \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 - 48 u^2 z \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 90 z^2 \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 + 102 u z^2 \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 + 48 u^2 z^2 \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 + \\
& 36 z^3 \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 - 18 z^4 \alpha^{12} \alpha^2 \beta_1^2 \beta_2^2 + 48 u \alpha^{11} \alpha^2 \beta_1^2 \beta_2^2 + 192 u^2 \alpha^{11} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 30 u z \alpha^{11} \alpha^2 \beta_1^2 \beta_2^2 - 120 u^2 z \alpha^{11} \alpha^2 \beta_1^2 \beta_2^2 + 72 z^2 \alpha^{11} \alpha^2 \beta_1^2 \beta_2^2 + \\
& 30 u z^2 \alpha^{11} \alpha^2 \beta_1^2 \beta_2^2 + 120 u^2 z^2 \alpha^{11} \alpha^2 \beta_1^2 \beta_2^2 - 144 z^3 \alpha^{11} \alpha^2 \beta_1^2 \beta_2^2 + \\
& 72 z^4 \alpha^{11} \alpha^2 \beta_1^2 \beta_2^2 + 66 u^2 \alpha^{10} \alpha^2 \beta_1^2 \beta_2^2 - 6 u^3 \alpha^{10} \alpha^2 \beta_1^2 \beta_2^2 - 36 u z \alpha^{10} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 6 u^2 z \alpha^{10} \alpha^2 \beta_1^2 \beta_2^2 + 24 z^2 \alpha^{10} \alpha^2 \beta_1^2 \beta_2^2 + 36 u z^2 \alpha^{10} \alpha^2 \beta_1^2 \beta_2^2 + 6 u^2 z^2 \alpha^{10} \alpha^2 \beta_1^2 \beta_2^2 - \\
& 48 z^3 \alpha^{10} \alpha^2 \beta_1^2 \beta_2^2 + 24 z^4 \alpha^{10} \alpha^2 \beta_1^2 \beta_2^2 + 80 \alpha^{15} \beta_1^3 \beta_2^2 - 126 u \alpha^{15} \beta_1^3 \beta_2^2 + \\
& 28 u^2 \alpha^{15} \beta_1^3 \beta_2^2 + 18 u^3 \alpha^{15} \beta_1^3 \beta_2^2 - 66 z \alpha^{15} \beta_1^3 \beta_2^2 + 66 u z \alpha^{15} \beta_1^3 \beta_2^2 + \\
& 66 u^2 z \alpha^{15} \beta_1^3 \beta_2^2 - 66 u^3 z \alpha^{15} \beta_1^3 \beta_2^2 + 46 z^2 \alpha^{15} \beta_1^3 \beta_2^2 - 48 u z^2 \alpha^{15} \beta_1^3 \beta_2^2 + \\
& 2 u^2 z^2 \alpha^{15} \beta_1^3 \beta_2^2 - 60 z^3 \alpha^{15} \beta_1^3 \beta_2^2 + 60 u z^3 \alpha^{15} \beta_1^3 \beta_2^2 + 320 \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 - \\
& 456 u \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 + 136 u^2 \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 - 246 z \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 + 432 u z \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 - \\
& 114 u^2 z \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 + 136 z^2 \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 - 306 u z^2 \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 - \\
& 22 u^2 z^2 \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 - 210 z^3 \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 + 330 u z^3 \alpha^{14} \alpha^2 \beta_1^3 \beta_2^2 + \\
& 320 \alpha^{13} \alpha^2 \beta_1^3 \beta_2^2 - 174 u \alpha^{13} \alpha^2 \beta_1^3 \beta_2^2 - 56 u^2 \alpha^{13} \alpha^2 \beta_1^3 \beta_2^2 - 90 u^3 \alpha^{13} \alpha^2 \beta_1^3 \beta_2^2 - \\
& 174 z \alpha^{13} \alpha^2 \beta_1^3 \beta_2^2 + 336 u z \alpha^{13} \alpha^2 \beta_1^3 \beta_2^2 - 348 u^2 z \alpha^{13} \alpha^2 \beta_1^3 \beta_2^2 + \\
& 330 u^3 z \alpha^{13} \alpha^2 \beta_1^3 \beta_2^2 - 56 z^2 \alpha^{13} \alpha^2 \beta_1^3 \beta_2^2 - 348 u z^2 \alpha^{13} \alpha^2 \beta_1^3 \beta_2^2 +
\end{aligned}$$

$$\begin{aligned}
& 20 u^2 z^2 \alpha^3 \alpha^2 \beta^3 \beta^2 - 90 z^3 \alpha^3 \alpha^2 \beta^3 \beta^2 + 330 u z^3 \alpha^3 \alpha^2 \beta^3 \beta^2 + \\
& 556 u \alpha^1 \alpha^2 \beta^3 \beta^2 - 326 u^2 \alpha^1 \alpha^2 \beta^3 \beta^2 + 90 u^3 \alpha^1 \alpha^2 \beta^3 \beta^2 + \\
& 144 z \alpha^1 \alpha^2 \beta^3 \beta^2 - 630 u z \alpha^1 \alpha^2 \beta^3 \beta^2 + 642 u^2 z \alpha^1 \alpha^2 \beta^3 \beta^2 - \\
& 330 u^3 z \alpha^1 \alpha^2 \beta^3 \beta^2 - 384 z^2 \alpha^1 \alpha^2 \beta^3 \beta^2 + 308 u z^2 \alpha^1 \alpha^2 \beta^3 \beta^2 + \\
& 20 u^2 z^2 \alpha^1 \alpha^2 \beta^3 \beta^2 + 240 z^3 \alpha^1 \alpha^2 \beta^3 \beta^2 - 330 u z^3 \alpha^1 \alpha^2 \beta^3 \beta^2 + \\
& 184 u \alpha^1 \alpha^2 \beta^3 \beta^2 + 136 u^2 \alpha^1 \alpha^2 \beta^3 \beta^2 + 72 z \alpha^1 \alpha^2 \beta^3 \beta^2 - 204 u z \alpha^1 \alpha^2 \beta^3 \beta^2 - \\
& 114 u^2 z \alpha^1 \alpha^2 \beta^3 \beta^2 - 192 z^2 \alpha^1 \alpha^2 \beta^3 \beta^2 + 350 u z^2 \alpha^1 \alpha^2 \beta^3 \beta^2 - \\
& 22 u^2 z^2 \alpha^1 \alpha^2 \beta^3 \beta^2 + 120 z^3 \alpha^1 \alpha^2 \beta^3 \beta^2 - 330 u z^3 \alpha^1 \alpha^2 \beta^3 \beta^2 + 16 u \alpha^2 \beta^3 \beta^2 + \\
& 82 u^2 \alpha^2 \beta^3 \beta^2 - 18 u^3 \alpha^2 \beta^3 \beta^2 - 132 u^2 z \alpha^2 \beta^3 \beta^2 + 66 u^3 z \alpha^2 \beta^3 \beta^2 + \\
& 44 u z^2 \alpha^2 \beta^3 \beta^2 + 2 u^2 z^2 \alpha^2 \beta^3 \beta^2 - 60 u z^3 \alpha^2 \beta^3 \beta^2 + 60 \alpha^1 \beta^4 \beta^2 - \\
& 54 u \alpha^1 \beta^4 \beta^2 - 27 u^2 \alpha^1 \beta^4 \beta^2 + 24 u^3 \alpha^1 \beta^4 \beta^2 - 3 u^4 \alpha^1 \beta^4 \beta^2 - \\
& 66 z \alpha^1 \beta^4 \beta^2 + 42 u z \alpha^1 \beta^4 \beta^2 + 90 u^2 z \alpha^1 \beta^4 \beta^2 - 42 u^3 z \alpha^1 \beta^4 \beta^2 + \\
& 18 z^2 \alpha^1 \beta^4 \beta^2 - 48 u z^2 \alpha^1 \beta^4 \beta^2 - 18 u^2 z^2 \alpha^1 \beta^4 \beta^2 - 12 z^3 \alpha^1 \beta^4 \beta^2 + \\
& 36 u z^3 \alpha^1 \beta^4 \beta^2 + 240 \alpha^1 \alpha^2 \beta^4 \beta^2 - 216 u \alpha^1 \alpha^2 \beta^4 \beta^2 + 24 u^2 \alpha^1 \alpha^2 \beta^4 \beta^2 - \\
& 60 u^3 \alpha^1 \alpha^2 \beta^4 \beta^2 + 12 u^4 \alpha^1 \alpha^2 \beta^4 \beta^2 - 258 z \alpha^1 \alpha^2 \beta^4 \beta^2 + 276 u z \alpha^1 \alpha^2 \beta^4 \beta^2 - \\
& 54 u^2 z \alpha^1 \alpha^2 \beta^4 \beta^2 + 84 u^3 z \alpha^1 \alpha^2 \beta^4 \beta^2 + 60 z^2 \alpha^1 \alpha^2 \beta^4 \beta^2 - 150 u z^2 \alpha^1 \alpha^2 \beta^4 \beta^2 - \\
& 6 u^2 z^2 \alpha^1 \alpha^2 \beta^4 \beta^2 - 42 z^3 \alpha^1 \alpha^2 \beta^4 \beta^2 + 90 u z^3 \alpha^1 \alpha^2 \beta^4 \beta^2 + 240 \alpha^1 \alpha^2 \beta^4 \beta^2 - \\
& 78 u \alpha^1 \alpha^2 \beta^4 \beta^2 + 60 u^2 \alpha^1 \alpha^2 \beta^4 \beta^2 + 36 u^3 \alpha^1 \alpha^2 \beta^4 \beta^2 - 18 u^4 \alpha^1 \alpha^2 \beta^4 \beta^2 - \\
& 234 z \alpha^1 \alpha^2 \beta^4 \beta^2 + 198 u z \alpha^1 \alpha^2 \beta^4 \beta^2 - 198 u^2 z \alpha^1 \alpha^2 \beta^4 \beta^2 + \\
& 12 z^2 \alpha^1 \alpha^2 \beta^4 \beta^2 - 48 u z^2 \alpha^1 \alpha^2 \beta^4 \beta^2 + 48 u^2 z^2 \alpha^1 \alpha^2 \beta^4 \beta^2 - \\
& 18 z^3 \alpha^1 \alpha^2 \beta^4 \beta^2 + 300 u \alpha^1 \alpha^2 \beta^4 \beta^2 - 84 u^2 \alpha^1 \alpha^2 \beta^4 \beta^2 + 12 u^3 \alpha^1 \alpha^2 \beta^4 \beta^2 + \\
& 12 u^4 \alpha^1 \alpha^2 \beta^4 \beta^2 + 48 z \alpha^1 \alpha^2 \beta^4 \beta^2 - 420 u z \alpha^1 \alpha^2 \beta^4 \beta^2 + 198 u^2 z \alpha^1 \alpha^2 \beta^4 \beta^2 - \\
& 84 u^3 z \alpha^1 \alpha^2 \beta^4 \beta^2 - 96 z^2 \alpha^1 \alpha^2 \beta^4 \beta^2 + 162 u z^2 \alpha^1 \alpha^2 \beta^4 \beta^2 - 6 u^2 z^2 \alpha^1 \alpha^2 \beta^4 \beta^2 + \\
& 48 z^3 \alpha^1 \alpha^2 \beta^4 \beta^2 - 90 u z^3 \alpha^1 \alpha^2 \beta^4 \beta^2 + 48 u \alpha^2 \beta^4 \beta^2 + 27 u^2 \alpha^2 \beta^4 \beta^2 - \\
& 12 u^3 \alpha^2 \beta^4 \beta^2 - 3 u^4 \alpha^2 \beta^4 \beta^2 + 24 z \alpha^2 \beta^4 \beta^2 - 96 u z \alpha^2 \beta^4 \beta^2 - \\
& 36 u^2 z \alpha^2 \beta^4 \beta^2 + 42 u^3 z \alpha^2 \beta^4 \beta^2 - 48 z^2 \alpha^2 \beta^4 \beta^2 + 84 u z^2 \alpha^2 \beta^4 \beta^2 - \\
& 18 u^2 z^2 \alpha^2 \beta^4 \beta^2 + 24 z^3 \alpha^2 \beta^4 \beta^2 - 36 u z^3 \alpha^2 \beta^4 \beta^2 + 24 \alpha^1 \beta^5 \beta^2 + \\
& 6 u \alpha^1 \beta^5 \beta^2 - 24 u^2 \alpha^1 \beta^5 \beta^2 - 6 u^3 \alpha^1 \beta^5 \beta^2 - 36 z \alpha^1 \beta^5 \beta^2 - 6 u z \alpha^1 \beta^5 \beta^2 + \\
& 36 u^2 z \alpha^1 \beta^5 \beta^2 + 6 u^3 z \alpha^1 \beta^5 \beta^2 + 12 z^2 \alpha^1 \beta^5 \beta^2 - 12 u^2 z^2 \alpha^1 \beta^5 \beta^2 + \\
& 96 \alpha^1 \alpha^2 \beta^5 \beta^2 - 24 u \alpha^1 \alpha^2 \beta^5 \beta^2 + 6 u^2 \alpha^1 \alpha^2 \beta^5 \beta^2 + 18 u^3 \alpha^1 \alpha^2 \beta^5 \beta^2 - \\
& 144 z \alpha^1 \alpha^2 \beta^5 \beta^2 + 36 u z \alpha^1 \alpha^2 \beta^5 \beta^2 - 18 u^2 z \alpha^1 \alpha^2 \beta^5 \beta^2 - 18 u^3 z \alpha^1 \alpha^2 \beta^5 \beta^2 + \\
& 48 z^2 \alpha^1 \alpha^2 \beta^5 \beta^2 - 12 u z^2 \alpha^1 \alpha^2 \beta^5 \beta^2 + 12 u^2 z^2 \alpha^1 \alpha^2 \beta^5 \beta^2 + 96 \alpha^1 \alpha^2 \beta^5 \beta^2 - \\
& 42 u \alpha^1 \alpha^2 \beta^5 \beta^2 + 60 u^2 \alpha^1 \alpha^2 \beta^5 \beta^2 - 18 u^3 \alpha^1 \alpha^2 \beta^5 \beta^2 - 144 z \alpha^1 \alpha^2 \beta^5 \beta^2 + \\
& 54 u z \alpha^1 \alpha^2 \beta^5 \beta^2 - 72 u^2 z \alpha^1 \alpha^2 \beta^5 \beta^2 + 18 u^3 z \alpha^1 \alpha^2 \beta^5 \beta^2 + 48 z^2 \alpha^1 \alpha^2 \beta^5 \beta^2 - \\
& 12 u z^2 \alpha^1 \alpha^2 \beta^5 \beta^2 + 12 u^2 z^2 \alpha^1 \alpha^2 \beta^5 \beta^2 + 60 u \alpha^2 \beta^5 \beta^2 - 42 u^2 \alpha^2 \beta^5 \beta^2 + \\
& 6 u^3 \alpha^2 \beta^5 \beta^2 - 84 u z \alpha^2 \beta^5 \beta^2 + 54 u^2 z \alpha^2 \beta^5 \beta^2 - 6 u^3 z \alpha^2 \beta^5 \beta^2 + \\
& 24 u z^2 \alpha^2 \beta^5 \beta^2 - 12 u^2 z^2 \alpha^2 \beta^5 \beta^2 + 4 \alpha^1 \beta^6 \beta^2 + 8 u \alpha^1 \beta^6 \beta^2 + \\
& 4 u^2 \alpha^1 \beta^6 \beta^2 - 8 z \alpha^1 \beta^6 \beta^2 - 16 u z \alpha^1 \beta^6 \beta^2 - 8 u^2 z \alpha^1 \beta^6 \beta^2 + \\
& 4 z^2 \alpha^1 \beta^6 \beta^2 + 8 u z^2 \alpha^1 \beta^6 \beta^2 + 4 u^2 z^2 \alpha^1 \beta^6 \beta^2 + 16 \alpha^1 \alpha^2 \beta^6 \beta^2 + \\
& 8 u \alpha^1 \alpha^2 \beta^6 \beta^2 - 8 u^2 \alpha^1 \alpha^2 \beta^6 \beta^2 - 32 z \alpha^1 \alpha^2 \beta^6 \beta^2 - 16 u z \alpha^1 \alpha^2 \beta^6 \beta^2 + \\
& 16 u^2 z \alpha^1 \alpha^2 \beta^6 \beta^2 + 16 z^2 \alpha^1 \alpha^2 \beta^6 \beta^2 + 8 u z^2 \alpha^1 \alpha^2 \beta^6 \beta^2 - 8 u^2 z^2 \alpha^1 \alpha^2 \beta^6 \beta^2 + \\
& 16 \alpha^2 \beta^6 \beta^2 - 16 u \alpha^2 \beta^6 \beta^2 + 4 u^2 \alpha^2 \beta^6 \beta^2 - 32 z \alpha^2 \beta^6 \beta^2 + \\
& 32 u z \alpha^2 \beta^6 \beta^2 - 8 u^2 z \alpha^2 \beta^6 \beta^2 + 16 z^2 \alpha^2 \beta^6 \beta^2 - 16 u z^2 \alpha^2 \beta^6 \beta^2 + \\
& 4 u^2 z^2 \alpha^2 \beta^6 \beta^2 + 20 z \alpha^1 \beta^7 \beta^3 - 32 u z \alpha^1 \beta^7 \beta^3 + 12 u^2 z \alpha^1 \beta^7 \beta^3 - 18 z^2 \alpha^1 \beta^7 \beta^3 + \\
& 24 u z^2 \alpha^1 \beta^7 \beta^3 - 6 u^2 z^2 \alpha^1 \beta^7 \beta^3 + 4 z^3 \alpha^1 \beta^7 \beta^3 - 4 u z^3 \alpha^1 \beta^7 \beta^3 + 76 z \alpha^1 \alpha^2 \beta^7 \beta^3 - \\
& 124 u z \alpha^1 \alpha^2 \beta^7 \beta^3 + 48 u^2 z \alpha^1 \alpha^2 \beta^7 \beta^3 - 66 z^2 \alpha^1 \alpha^2 \beta^7 \beta^3 + 90 u z^2 \alpha^1 \alpha^2 \beta^7 \beta^3 - \\
& 24 u^2 z^2 \alpha^1 \alpha^2 \beta^7 \beta^3 + 14 z^3 \alpha^1 \alpha^2 \beta^7 \beta^3 - 14 u z^3 \alpha^1 \alpha^2 \beta^7 \beta^3 + 60 z \alpha^1 \alpha^2 \beta^7 \beta^3 -
\end{aligned}$$

$$\begin{aligned}
& 84 u z \alpha^5 \alpha^2 \beta^2 \beta^3 + 24 u^2 z \alpha^5 \alpha^2 \beta^2 \beta^3 - 42 z^2 \alpha^5 \alpha^2 \beta^2 \beta^3 + 54 u z^2 \alpha^5 \alpha^2 \beta^2 \beta^3 - \\
& 12 u^2 z^2 \alpha^5 \alpha^2 \beta^2 \beta^3 + 6 z^3 \alpha^5 \alpha^2 \beta^2 \beta^3 - 6 u z^3 \alpha^5 \alpha^2 \beta^2 \beta^3 - 32 z \alpha^4 \alpha^2 \beta^2 \beta^3 + \\
& 100 u z \alpha^4 \alpha^2 \beta^2 \beta^3 - 84 u^2 z \alpha^4 \alpha^2 \beta^2 \beta^3 + 48 z^2 \alpha^4 \alpha^2 \beta^2 \beta^3 - 66 u z^2 \alpha^4 \alpha^2 \beta^2 \beta^3 + \\
& 42 u^2 z^2 \alpha^4 \alpha^2 \beta^2 \beta^3 - 16 z^3 \alpha^4 \alpha^2 \beta^2 \beta^3 + 8 u z^3 \alpha^4 \alpha^2 \beta^2 \beta^3 - 16 z \alpha^3 \alpha^2 \beta^2 \beta^3 + \\
& 68 u z \alpha^3 \alpha^2 \beta^2 \beta^3 - 84 u^2 z \alpha^3 \alpha^2 \beta^2 \beta^3 + 24 z^2 \alpha^3 \alpha^2 \beta^2 \beta^3 - 18 u z^2 \alpha^3 \alpha^2 \beta^2 \beta^3 + \\
& 42 u^2 z^2 \alpha^3 \alpha^2 \beta^2 \beta^3 - 8 z^3 \alpha^3 \alpha^2 \beta^2 \beta^3 - 8 u z^3 \alpha^3 \alpha^2 \beta^2 \beta^3 + 36 u z \alpha^1 \alpha^2 \beta^2 \beta^3 + \\
& 24 u^2 z \alpha^1 \alpha^2 \beta^2 \beta^3 - 30 u z^2 \alpha^1 \alpha^2 \beta^2 \beta^3 - 12 u^2 z^2 \alpha^1 \alpha^2 \beta^2 \beta^3 + 6 u z^3 \alpha^1 \alpha^2 \beta^2 \beta^3 + \\
& 28 u z \alpha^1 \alpha^2 \beta^2 \beta^3 + 48 u^2 z \alpha^1 \alpha^2 \beta^2 \beta^3 - 42 u z^2 \alpha^1 \alpha^2 \beta^2 \beta^3 - 24 u^2 z^2 \alpha^1 \alpha^2 \beta^2 \beta^3 + \\
& 14 u z^3 \alpha^1 \alpha^2 \beta^2 \beta^3 + 8 u z \alpha^2 \beta^2 \beta^3 + 12 u^2 z \alpha^2 \beta^2 \beta^3 - 12 u z^2 \alpha^2 \beta^2 \beta^3 - 6 u^2 z^2 \alpha^2 \beta^2 \beta^3 + \\
& 4 u z^3 \alpha^2 \beta^2 \beta^3 - 16 u \alpha^1 \beta^1 \beta^2 \beta^3 + 32 u^2 \alpha^1 \beta^1 \beta^2 \beta^3 - 16 u^3 \alpha^1 \beta^1 \beta^2 \beta^3 + 90 z \alpha^1 \beta^1 \beta^2 \beta^3 - \\
& 126 u z \alpha^1 \beta^1 \beta^2 \beta^3 + 6 u^2 z \alpha^1 \beta^1 \beta^2 \beta^3 + 30 u^3 z \alpha^1 \beta^1 \beta^2 \beta^3 - 70 z^2 \alpha^1 \beta^1 \beta^2 \beta^3 + \\
& 60 u z^2 \alpha^1 \beta^1 \beta^2 \beta^3 - 6 u^2 z^2 \alpha^1 \beta^1 \beta^2 \beta^3 + 56 z^3 \alpha^1 \beta^1 \beta^2 \beta^3 - 24 u z^3 \alpha^1 \beta^1 \beta^2 \beta^3 - \\
& 16 z^4 \alpha^1 \beta^1 \beta^2 \beta^3 + 348 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 576 u z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 228 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 240 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 228 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 36 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 180 z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 84 u z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 48 z^4 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 48 u \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 96 u^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 48 u^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 300 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 420 u z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 162 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 90 u^3 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 84 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 198 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 6 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 12 z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 84 u z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 12 z^4 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 32 u \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 32 u^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 96 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 612 u z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 612 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 296 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 96 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 96 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 304 z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 104 z^4 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 48 u^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 48 u^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 48 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 366 u z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 108 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 90 u^3 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 108 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 186 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 6 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 72 z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 84 u z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 12 z^4 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 120 u z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 228 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 48 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 156 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 36 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 96 z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 84 u z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 48 z^4 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 16 u^2 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 16 u^3 \alpha^2 \beta^1 \beta^2 \beta^3 + 24 u z \alpha^2 \beta^1 \beta^2 \beta^3 + 96 u^2 z \alpha^2 \beta^1 \beta^2 \beta^3 - 30 u^3 z \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 16 z^2 \alpha^2 \beta^1 \beta^2 \beta^3 - 48 u z^2 \alpha^2 \beta^1 \beta^2 \beta^3 - 6 u^2 z^2 \alpha^2 \beta^1 \beta^2 \beta^3 + 32 z^3 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 24 u z^3 \alpha^2 \beta^1 \beta^2 \beta^3 - 16 z^4 \alpha^2 \beta^1 \beta^2 \beta^3 - 48 u \alpha^1 \beta^1 \beta^2 \beta^3 + 96 u^2 \alpha^1 \beta^1 \beta^2 \beta^3 - \\
& 48 u^3 \alpha^1 \beta^1 \beta^2 \beta^3 + 154 z \alpha^1 \beta^1 \beta^2 \beta^3 - 150 u z \alpha^1 \beta^1 \beta^2 \beta^3 - 70 u^2 z \alpha^1 \beta^1 \beta^2 \beta^3 + \\
& 66 u^3 z \alpha^1 \beta^1 \beta^2 \beta^3 - 134 z^2 \alpha^1 \beta^1 \beta^2 \beta^3 + 132 u z^2 \alpha^1 \beta^1 \beta^2 \beta^3 + 2 u^2 z^2 \alpha^1 \beta^1 \beta^2 \beta^3 + \\
& 60 z^3 \alpha^1 \beta^1 \beta^2 \beta^3 - 60 u z^3 \alpha^1 \beta^1 \beta^2 \beta^3 + 604 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 810 u z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 158 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 494 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 684 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 22 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 210 z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 330 u z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 144 u \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 384 u^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 240 u^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 556 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 630 u z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 308 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 330 u^3 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 326 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 642 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 20 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 90 z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 330 u z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 96 u \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 336 u^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 240 u^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 96 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 1004 u z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 682 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 330 u^3 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 336 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 682 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 20 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 240 z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 330 u z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 48 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 494 u z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 158 u^2 z \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 168 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 640 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 22 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - \\
& 120 z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 + 330 u z^3 \alpha^1 \alpha^2 \beta^1 \beta^2 \beta^3 - 48 u^2 \alpha^2 \beta^1 \beta^2 \beta^3 + 48 u^3 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 92 u z \alpha^2 \beta^1 \beta^2 \beta^3 + 128 u^2 z \alpha^2 \beta^1 \beta^2 \beta^3 - 66 u^3 z \alpha^2 \beta^1 \beta^2 \beta^3 - 136 u z^2 \alpha^2 \beta^1 \beta^2 \beta^3 + \\
& 2 u^2 z^2 \alpha^2 \beta^1 \beta^2 \beta^3 + 60 u z^3 \alpha^2 \beta^1 \beta^2 \beta^3 - 48 u \alpha^1 \beta^1 \beta^2 \beta^3 + 70 u^2 \alpha^1 \beta^1 \beta^2 \beta^3 +
\end{aligned}$$

$$\begin{aligned}
& 4 u^3 \alpha^4 \beta^3 \beta^3 - 26 u^4 \alpha^4 \beta^3 \beta^3 + 122 z \alpha^4 \beta^3 \beta^3 - 60 u z \alpha^4 \beta^3 \beta^3 - \\
& 78 u^2 z \alpha^4 \beta^3 \beta^3 - 122 z^2 \alpha^4 \beta^3 \beta^3 + 60 u z^2 \alpha^4 \beta^3 \beta^3 + 78 u^2 z^2 \alpha^4 \beta^3 \beta^3 + \\
& 8 u^2 \alpha^3 \alpha^2 \beta^3 \beta^3 - 112 u^3 \alpha^3 \alpha^2 \beta^3 \beta^3 + 104 u^4 \alpha^3 \alpha^2 \beta^3 \beta^3 + 484 z \alpha^3 \alpha^2 \beta^3 \beta^3 - \\
& 420 u z \alpha^3 \alpha^2 \beta^3 \beta^3 - 96 u^2 z \alpha^3 \alpha^2 \beta^3 \beta^3 - 484 z^2 \alpha^3 \alpha^2 \beta^3 \beta^3 + \\
& 420 u z^2 \alpha^3 \alpha^2 \beta^3 \beta^3 + 96 u^2 z^2 \alpha^3 \alpha^2 \beta^3 \beta^3 + 144 u \alpha^1^2 \alpha^2 \beta^3 \beta^3 - \\
& 300 u^2 \alpha^1^2 \alpha^2 \beta^3 \beta^3 + 312 u^3 \alpha^1^2 \alpha^2 \beta^3 \beta^3 - 156 u^4 \alpha^1^2 \alpha^2 \beta^3 \beta^3 + \\
& 468 z \alpha^1^2 \alpha^2 \beta^3 \beta^3 - 348 u z \alpha^1^2 \alpha^2 \beta^3 \beta^3 + 348 u^2 z \alpha^1^2 \alpha^2 \beta^3 \beta^3 - \\
& 468 z^2 \alpha^1^2 \alpha^2 \beta^3 \beta^3 + 348 u z^2 \alpha^1^2 \alpha^2 \beta^3 \beta^3 - 348 u^2 z^2 \alpha^1^2 \alpha^2 \beta^3 \beta^3 - \\
& 96 u \alpha^1 \alpha^2^3 \beta^3 \beta^3 + 296 u^2 \alpha^1 \alpha^2^3 \beta^3 \beta^3 - 304 u^3 \alpha^1 \alpha^2^3 \beta^3 \beta^3 + 104 u^4 \alpha^1 \alpha^2^3 \beta^3 \beta^3 - \\
& 32 z \alpha^1 \alpha^2^3 \beta^3 \beta^3 + 612 u z \alpha^1 \alpha^2^3 \beta^3 \beta^3 - 96 u^2 z \alpha^1 \alpha^2^3 \beta^3 \beta^3 + 32 z^2 \alpha^1 \alpha^2^3 \beta^3 \beta^3 - \\
& 612 u z^2 \alpha^1 \alpha^2^3 \beta^3 \beta^3 + 96 u^2 z^2 \alpha^1 \alpha^2^3 \beta^3 \beta^3 - 74 u^2 \alpha^2^4 \beta^3 \beta^3 + 100 u^3 \alpha^2^4 \beta^3 \beta^3 - \\
& 26 u^4 \alpha^2^4 \beta^3 \beta^3 - 16 z \alpha^2^4 \beta^3 \beta^3 + 216 u z \alpha^2^4 \beta^3 \beta^3 - 78 u^2 z \alpha^2^4 \beta^3 \beta^3 + \\
& 16 z^2 \alpha^2^4 \beta^3 \beta^3 - 216 u z^2 \alpha^2^4 \beta^3 \beta^3 + 78 u^2 z^2 \alpha^2^4 \beta^3 \beta^3 - 16 u \alpha^1^3 \beta^1^4 \beta^3 + \\
& 16 u^3 \alpha^1^3 \beta^1^4 \beta^3 + 42 z \alpha^1^3 \beta^1^4 \beta^3 + 8 u z \alpha^1^3 \beta^1^4 \beta^3 - 42 u^2 z \alpha^1^3 \beta^1^4 \beta^3 - \\
& 8 u^3 z \alpha^1^3 \beta^1^4 \beta^3 - 42 z^2 \alpha^1^3 \beta^1^4 \beta^3 + 42 u^2 z^2 \alpha^1^3 \beta^1^4 \beta^3 + 48 u^2 \alpha^1^2 \alpha^2 \beta^1^4 \beta^3 - \\
& 48 u^3 \alpha^1^2 \alpha^2 \beta^1^4 \beta^3 + 168 z \alpha^1^2 \alpha^2 \beta^1^4 \beta^3 - 42 u z \alpha^1^2 \alpha^2 \beta^1^4 \beta^3 + 18 u^2 z \alpha^1^2 \alpha^2 \beta^1^4 \beta^3 + \\
& 24 u^3 z \alpha^1^2 \alpha^2 \beta^1^4 \beta^3 - 168 z^2 \alpha^1^2 \alpha^2 \beta^1^4 \beta^3 + 42 u z^2 \alpha^1^2 \alpha^2 \beta^1^4 \beta^3 - \\
& 42 u^2 z^2 \alpha^1^2 \alpha^2 \beta^1^4 \beta^3 + 48 u \alpha^1 \alpha^2^2 \beta^1^4 \beta^3 - 96 u^2 \alpha^1 \alpha^2^2 \beta^1^4 \beta^3 + 48 u^3 \alpha^1 \alpha^2^2 \beta^1^4 \beta^3 + \\
& 168 z \alpha^1 \alpha^2^2 \beta^1^4 \beta^3 - 66 u z \alpha^1 \alpha^2^2 \beta^1^4 \beta^3 + 90 u^2 z \alpha^1 \alpha^2^2 \beta^1^4 \beta^3 - 24 u^3 z \alpha^1 \alpha^2^2 \beta^1^4 \beta^3 - \\
& 168 z^2 \alpha^1 \alpha^2^2 \beta^1^4 \beta^3 + 42 u z^2 \alpha^1 \alpha^2^2 \beta^1^4 \beta^3 - 42 u^2 z^2 \alpha^1 \alpha^2^2 \beta^1^4 \beta^3 - 32 u \alpha^2^3 \beta^1^4 \beta^3 + \\
& 48 u^2 \alpha^2^3 \beta^1^4 \beta^3 - 16 u^3 \alpha^2^3 \beta^1^4 \beta^3 + 100 u z \alpha^2^3 \beta^1^4 \beta^3 - 66 u^2 z \alpha^2^3 \beta^1^4 \beta^3 + \\
& 8 u^3 z \alpha^2^3 \beta^1^4 \beta^3 - 84 u z^2 \alpha^2^3 \beta^1^4 \beta^3 + 42 u^2 z^2 \alpha^2^3 \beta^1^4 \beta^3 + 4 z \alpha^1^2 \beta^1^5 \beta^3 + \\
& 8 u z \alpha^1^2 \beta^1^5 \beta^3 + 4 u^2 z \alpha^1^2 \beta^1^5 \beta^3 - 4 z^2 \alpha^1^2 \beta^1^5 \beta^3 - 8 u z^2 \alpha^1^2 \beta^1^5 \beta^3 - \\
& 4 u^2 z^2 \alpha^1^2 \beta^1^5 \beta^3 + 16 z \alpha^1 \alpha^2 \beta^1^5 \beta^3 + 8 u z \alpha^1 \alpha^2 \beta^1^5 \beta^3 - 8 u^2 z \alpha^1 \alpha^2 \beta^1^5 \beta^3 - \\
& 16 z^2 \alpha^1 \alpha^2 \beta^1^5 \beta^3 - 8 u z^2 \alpha^1 \alpha^2 \beta^1^5 \beta^3 + 8 u^2 z^2 \alpha^1 \alpha^2 \beta^1^5 \beta^3 + 16 z \alpha^2^2 \beta^1^5 \beta^3 - \\
& 16 u z \alpha^2^2 \beta^1^5 \beta^3 + 4 u^2 z \alpha^2^2 \beta^1^5 \beta^3 - 16 z^2 \alpha^2^2 \beta^1^5 \beta^3 + 16 u z^2 \alpha^2^2 \beta^1^5 \beta^3 - \\
& 4 u^2 z^2 \alpha^2^2 \beta^1^5 \beta^3 - 8 u \alpha^1^6 \beta^2^4 + 16 u^2 \alpha^1^6 \beta^2^4 - 8 u^3 \alpha^1^6 \beta^2^4 + 12 z \alpha^1^6 \beta^2^4 - \\
& 12 u z \alpha^1^6 \beta^2^4 - 12 u^2 z \alpha^1^6 \beta^2^4 + 12 u^3 z \alpha^1^6 \beta^2^4 + 19 z^2 \alpha^1^6 \beta^2^4 - 18 u z^2 \alpha^1^6 \beta^2^4 + \\
& 3 u^2 z^2 \alpha^1^6 \beta^2^4 - 20 z^3 \alpha^1^6 \beta^2^4 + 12 u z^3 \alpha^1^6 \beta^2^4 + 4 z^4 \alpha^1^6 \beta^2^4 + 48 z \alpha^1^5 \alpha^2 \beta^2^4 - \\
& 120 u z \alpha^1^5 \alpha^2 \beta^2^4 + 72 u^2 z \alpha^1^5 \alpha^2 \beta^2^4 + 66 z^2 \alpha^1^5 \alpha^2 \beta^2^4 - 30 u z^2 \alpha^1^5 \alpha^2 \beta^2^4 - \\
& 24 u^2 z^2 \alpha^1^5 \alpha^2 \beta^2^4 - 66 z^3 \alpha^1^5 \alpha^2 \beta^2^4 + 42 u z^3 \alpha^1^5 \alpha^2 \beta^2^4 + 12 z^4 \alpha^1^5 \alpha^2 \beta^2^4 + \\
& 24 u \alpha^1^4 \alpha^2^2 \beta^2^4 - 48 u^2 \alpha^1^4 \alpha^2^2 \beta^2^4 + 24 u^3 \alpha^1^4 \alpha^2^2 \beta^2^4 + 48 z \alpha^1^4 \alpha^2^2 \beta^2^4 - \\
& 96 u z \alpha^1^4 \alpha^2^2 \beta^2^4 + 84 u^2 z \alpha^1^4 \alpha^2^2 \beta^2^4 - 36 u^3 z \alpha^1^4 \alpha^2^2 \beta^2^4 + 27 z^2 \alpha^1^4 \alpha^2^2 \beta^2^4 - \\
& 36 u z^2 \alpha^1^4 \alpha^2^2 \beta^2^4 - 18 u^2 z^2 \alpha^1^4 \alpha^2^2 \beta^2^4 - 12 z^3 \alpha^1^4 \alpha^2^2 \beta^2^4 + 42 u z^3 \alpha^1^4 \alpha^2^2 \beta^2^4 - \\
& 3 z^4 \alpha^1^4 \alpha^2^2 \beta^2^4 - 16 u \alpha^1^3 \alpha^2^3 \beta^2^4 + 16 u^2 \alpha^1^3 \alpha^2^3 \beta^2^4 + 216 u z \alpha^1^3 \alpha^2^3 \beta^2^4 - \\
& 216 u^2 z \alpha^1^3 \alpha^2^3 \beta^2^4 - 74 z^2 \alpha^1^3 \alpha^2^3 \beta^2^4 - 78 u z^2 \alpha^1^3 \alpha^2^3 \beta^2^4 + 78 u^2 z^2 \alpha^1^3 \alpha^2^3 \beta^2^4 + \\
& 100 z^3 \alpha^1^3 \alpha^2^3 \beta^2^4 - 26 z^4 \alpha^1^3 \alpha^2^3 \beta^2^4 + 24 u^2 \alpha^1^2 \alpha^2^4 \beta^2^4 - 24 u^3 \alpha^1^2 \alpha^2^4 \beta^2^4 + \\
& 36 u z \alpha^1^2 \alpha^2^4 \beta^2^4 - 24 u^2 z \alpha^1^2 \alpha^2^4 \beta^2^4 + 36 u^3 z \alpha^1^2 \alpha^2^4 \beta^2^4 - 27 z^2 \alpha^1^2 \alpha^2^4 \beta^2^4 + \\
& 72 u z^2 \alpha^1^2 \alpha^2^4 \beta^2^4 - 18 u^2 z^2 \alpha^1^2 \alpha^2^4 \beta^2^4 + 30 z^3 \alpha^1^2 \alpha^2^4 \beta^2^4 - 42 u z^3 \alpha^1^2 \alpha^2^4 \beta^2^4 - \\
& 3 z^4 \alpha^1^2 \alpha^2^4 \beta^2^4 - 24 u z \alpha^1 \alpha^2^5 \beta^2^4 + 72 u^2 z \alpha^1 \alpha^2^5 \beta^2^4 + 12 z^2 \alpha^1 \alpha^2^5 \beta^2^4 + \\
& 78 u z^2 \alpha^1 \alpha^2^5 \beta^2^4 - 24 u^2 z^2 \alpha^1 \alpha^2^5 \beta^2^4 - 24 z^3 \alpha^1 \alpha^2^5 \beta^2^4 - 42 u z^3 \alpha^1 \alpha^2^5 \beta^2^4 + \\
& 12 z^4 \alpha^1 \alpha^2^5 \beta^2^4 - 8 u^2 \alpha^2^6 \beta^2^4 + 8 u^3 \alpha^2^6 \beta^2^4 + 24 u^2 z \alpha^2^6 \beta^2^4 - 12 u^3 z \alpha^2^6 \beta^2^4 + \\
& 4 z^2 \alpha^2^6 \beta^2^4 + 12 u z^2 \alpha^2^6 \beta^2^4 + 3 u^2 z^2 \alpha^2^6 \beta^2^4 - 8 z^3 \alpha^2^6 \beta^2^4 - 12 u z^3 \alpha^2^6 \beta^2^4 + \\
& 4 z^4 \alpha^2^6 \beta^2^4 - 24 u \alpha^1^5 \beta^1 \beta^2^4 + 48 u^2 \alpha^1^5 \beta^1 \beta^2^4 - 24 u^3 \alpha^1^5 \beta^1 \beta^2^4 + 46 z \alpha^1^5 \beta^1 \beta^2^4 - \\
& 42 u z \alpha^1^5 \beta^1 \beta^2^4 - 70 u^2 z \alpha^1^5 \beta^1 \beta^2^4 + 66 u^3 z \alpha^1^5 \beta^1 \beta^2^4 + 34 z^2 \alpha^1^5 \beta^1 \beta^2^4 - \\
& 36 u z^2 \alpha^1^5 \beta^1 \beta^2^4 + 2 u^2 z^2 \alpha^1^5 \beta^1 \beta^2^4 + 184 z \alpha^1^4 \alpha^2 \beta^1 \beta^2^4 - 300 u z \alpha^1^4 \alpha^2 \beta^1 \beta^2^4 + \\
& 116 u^2 z \alpha^1^4 \alpha^2 \beta^1 \beta^2^4 + 136 z^2 \alpha^1^4 \alpha^2 \beta^1 \beta^2^4 - 156 u z^2 \alpha^1^4 \alpha^2 \beta^1 \beta^2^4 + 20 u^2 z^2 \alpha^1^4 \alpha^2 \beta^1 \beta^2^4 +
\end{aligned}$$

$$\begin{aligned}
& 72 u \alpha_1^3 \alpha_2^2 \beta_1 \beta_2^4 - 192 u^2 \alpha_1^3 \alpha_2^2 \beta_1 \beta_2^4 + 120 u^3 \alpha_1^3 \alpha_2^2 \beta_1 \beta_2^4 + 184 z \alpha_1^3 \alpha_2^2 \beta_1 \beta_2^4 - \\
& 204 u z \alpha_1^3 \alpha_2^2 \beta_1 \beta_2^4 + 350 u^2 z \alpha_1^3 \alpha_2^2 \beta_1 \beta_2^4 - 330 u^3 z \alpha_1^3 \alpha_2^2 \beta_1 \beta_2^4 + \\
& 136 z^2 \alpha_1^3 \alpha_2^2 \beta_1 \beta_2^4 - 114 u z^2 \alpha_1^3 \alpha_2^2 \beta_1 \beta_2^4 - 22 u^2 z^2 \alpha_1^3 \alpha_2^2 \beta_1 \beta_2^4 - \\
& 48 u \alpha_1^2 \alpha_2^3 \beta_1 \beta_2^4 + 168 u^2 \alpha_1^2 \alpha_2^3 \beta_1 \beta_2^4 - 120 u^3 \alpha_1^2 \alpha_2^3 \beta_1 \beta_2^4 + 494 u z \alpha_1^2 \alpha_2^3 \beta_1 \beta_2^4 - \\
& 640 u^2 z \alpha_1^2 \alpha_2^3 \beta_1 \beta_2^4 + 330 u^3 z \alpha_1^2 \alpha_2^3 \beta_1 \beta_2^4 + 158 u z^2 \alpha_1^2 \alpha_2^3 \beta_1 \beta_2^4 - \\
& 22 u^2 z^2 \alpha_1^2 \alpha_2^3 \beta_1 \beta_2^4 + 68 u z \alpha_1 \alpha_2^4 \beta_1 \beta_2^4 + 116 u^2 z \alpha_1 \alpha_2^4 \beta_1 \beta_2^4 + \\
& 116 u z^2 \alpha_1 \alpha_2^4 \beta_1 \beta_2^4 + 20 u^2 z^2 \alpha_1 \alpha_2^4 \beta_1 \beta_2^4 - 24 u^2 \alpha_2^5 \beta_1 \beta_2^4 + 24 u^3 \alpha_2^5 \beta_1 \beta_2^4 - \\
& 16 u z \alpha_2^5 \beta_1 \beta_2^4 + 128 u^2 z \alpha_2^5 \beta_1 \beta_2^4 - 66 u^3 z \alpha_2^5 \beta_1 \beta_2^4 + 32 u z^2 \alpha_2^5 \beta_1 \beta_2^4 + \\
& 2 u^2 z^2 \alpha_2^5 \beta_1 \beta_2^4 - 24 u \alpha_1^4 \beta_1^2 \beta_2^4 + 45 u^2 \alpha_1^4 \beta_1^2 \beta_2^4 - 18 u^3 \alpha_1^4 \beta_1^2 \beta_2^4 - \\
& 3 u^4 \alpha_1^4 \beta_1^2 \beta_2^4 + 66 z \alpha_1^4 \beta_1^2 \beta_2^4 - 54 u z \alpha_1^4 \beta_1^2 \beta_2^4 - 54 u^2 z \alpha_1^4 \beta_1^2 \beta_2^4 + \\
& 42 u^3 z \alpha_1^4 \beta_1^2 \beta_2^4 - 18 z^2 \alpha_1^4 \beta_1^2 \beta_2^4 + 60 u z^2 \alpha_1^4 \beta_1^2 \beta_2^4 - 18 u^2 z^2 \alpha_1^4 \beta_1^2 \beta_2^4 + \\
& 12 z^3 \alpha_1^4 \beta_1^2 \beta_2^4 - 36 u z^3 \alpha_1^4 \beta_1^2 \beta_2^4 - 36 u^2 z^3 \alpha_1^4 \beta_1^2 \beta_2^4 + 24 u^3 z^3 \alpha_1^4 \beta_1^2 \beta_2^4 + \\
& 12 u^4 z^3 \alpha_1^4 \beta_1^2 \beta_2^4 + 264 z \alpha_1^3 \alpha_2 \beta_1^2 \beta_2^4 - 246 u z \alpha_1^3 \alpha_2 \beta_1^2 \beta_2^4 + 66 u^2 z \alpha_1^3 \alpha_2 \beta_1^2 \beta_2^4 - \\
& 84 u^3 z \alpha_1^3 \alpha_2 \beta_1^2 \beta_2^4 - 66 z^2 \alpha_1^3 \alpha_2 \beta_1^2 \beta_2^4 + 120 u z^2 \alpha_1^3 \alpha_2 \beta_1^2 \beta_2^4 - \\
& 6 u^2 z^2 \alpha_1^3 \alpha_2 \beta_1^2 \beta_2^4 + 42 z^3 \alpha_1^3 \alpha_2 \beta_1^2 \beta_2^4 - 90 u z^3 \alpha_1^3 \alpha_2 \beta_1^2 \beta_2^4 + 72 u \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 - \\
& 90 u^2 \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 + 36 u^3 \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 - 18 u^4 \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 + 264 z \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 - \\
& 102 u z \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 + 102 u^2 z \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 - 42 z^2 \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 - \\
& 48 u z^2 \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 + 48 u^2 z^2 \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 + 18 z^3 \alpha_1^2 \alpha_2^2 \beta_1^2 \beta_2^4 - \\
& 48 u \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 + 108 u^2 \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 - 72 u^3 \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 + 12 u^4 \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 + \\
& 366 u z \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 - 186 u^2 z \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 + 84 u^3 z \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 + \\
& 48 z^2 \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 - 108 u z^2 \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 - 6 u^2 z^2 \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 - 48 z^3 \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 + \\
& 90 u z^3 \alpha_1 \alpha_2^3 \beta_1^2 \beta_2^4 - 27 u^2 \alpha_2^4 \beta_1^2 \beta_2^4 + 30 u^3 \alpha_2^4 \beta_1^2 \beta_2^4 - 3 u^4 \alpha_2^4 \beta_1^2 \beta_2^4 + \\
& 36 u z \alpha_2^4 \beta_1^2 \beta_2^4 + 72 u^2 z \alpha_2^4 \beta_1^2 \beta_2^4 - 42 u^3 z \alpha_2^4 \beta_1^2 \beta_2^4 + 24 z^2 \alpha_2^4 \beta_1^2 \beta_2^4 - \\
& 24 u z^2 \alpha_2^4 \beta_1^2 \beta_2^4 - 18 u^2 z^2 \alpha_2^4 \beta_1^2 \beta_2^4 - 24 z^3 \alpha_2^4 \beta_1^2 \beta_2^4 + 36 u z^3 \alpha_2^4 \beta_1^2 \beta_2^4 - \\
& 8 u \alpha_1^3 \beta_1^3 \beta_2^4 + 8 u^3 \alpha_1^3 \beta_1^3 \beta_2^4 + 42 z \alpha_1^3 \beta_1^3 \beta_2^4 - 8 u z \alpha_1^3 \beta_1^3 \beta_2^4 - 42 u^2 z \alpha_1^3 \beta_1^3 \beta_2^4 + \\
& 8 u^3 z \alpha_1^3 \beta_1^3 \beta_2^4 - 42 z^2 \alpha_1^3 \beta_1^3 \beta_2^4 + 42 u^2 z^2 \alpha_1^3 \beta_1^3 \beta_2^4 + 24 u^2 \alpha_1^2 \alpha_2 \beta_1^3 \beta_2^4 - \\
& 24 u^3 \alpha_1^2 \alpha_2 \beta_1^3 \beta_2^4 + 168 z \alpha_1^2 \alpha_2 \beta_1^3 \beta_2^4 - 42 u z \alpha_1^2 \alpha_2 \beta_1^3 \beta_2^4 + 66 u^2 z \alpha_1^2 \alpha_2 \beta_1^3 \beta_2^4 - \\
& 24 u^3 z \alpha_1^2 \alpha_2 \beta_1^3 \beta_2^4 - 168 z^2 \alpha_1^2 \alpha_2 \beta_1^3 \beta_2^4 + 42 u z^2 \alpha_1^2 \alpha_2 \beta_1^3 \beta_2^4 - \\
& 42 u^2 z^2 \alpha_1^2 \alpha_2 \beta_1^3 \beta_2^4 + 24 u \alpha_1 \alpha_2^2 \beta_1^3 \beta_2^4 - 48 u^2 \alpha_1 \alpha_2^2 \beta_1^3 \beta_2^4 + 24 u^3 \alpha_1 \alpha_2^2 \beta_1^3 \beta_2^4 + \\
& 168 z \alpha_1 \alpha_2^2 \beta_1^3 \beta_2^4 - 18 u z \alpha_1 \alpha_2^2 \beta_1^3 \beta_2^4 - 6 u^2 z \alpha_1 \alpha_2^2 \beta_1^3 \beta_2^4 + 24 u^3 z \alpha_1 \alpha_2^2 \beta_1^3 \beta_2^4 - \\
& 168 z^2 \alpha_1 \alpha_2^2 \beta_1^3 \beta_2^4 + 42 u z^2 \alpha_1 \alpha_2^2 \beta_1^3 \beta_2^4 - 42 u^2 z^2 \alpha_1 \alpha_2^2 \beta_1^3 \beta_2^4 - 16 u \alpha_2^3 \beta_1^3 \beta_2^4 + \\
& 24 u^2 \alpha_2^3 \beta_1^3 \beta_2^4 - 8 u^3 \alpha_2^3 \beta_1^3 \beta_2^4 + 68 u z \alpha_2^3 \beta_1^3 \beta_2^4 - 18 u^2 z \alpha_2^3 \beta_1^3 \beta_2^4 - \\
& 8 u^3 z \alpha_2^3 \beta_1^3 \beta_2^4 - 84 u z^2 \alpha_2^3 \beta_1^3 \beta_2^4 + 42 u^2 z^2 \alpha_2^3 \beta_1^3 \beta_2^4 + 10 z \alpha_1^2 \beta_1^4 \beta_2^4 + \\
& 20 u z \alpha_1^2 \beta_1^4 \beta_2^4 + 10 u^2 z \alpha_1^2 \beta_1^4 \beta_2^4 - 10 z^2 \alpha_1^2 \beta_1^4 \beta_2^4 - 20 u z^2 \alpha_1^2 \beta_1^4 \beta_2^4 - \\
& 10 u^2 z^2 \alpha_1^2 \beta_1^4 \beta_2^4 + 40 z \alpha_1 \alpha_2 \beta_1^4 \beta_2^4 + 20 u z \alpha_1 \alpha_2 \beta_1^4 \beta_2^4 - 20 u^2 z \alpha_1 \alpha_2 \beta_1^4 \beta_2^4 - \\
& 40 z^2 \alpha_1 \alpha_2 \beta_1^4 \beta_2^4 - 20 u z^2 \alpha_1 \alpha_2 \beta_1^4 \beta_2^4 + 20 u^2 z^2 \alpha_1 \alpha_2 \beta_1^4 \beta_2^4 + 40 z \alpha_2^2 \beta_1^4 \beta_2^4 - \\
& 40 u z \alpha_2^2 \beta_1^4 \beta_2^4 + 10 u^2 z \alpha_2^2 \beta_1^4 \beta_2^4 - 40 z^2 \alpha_2^2 \beta_1^4 \beta_2^4 + 40 u z^2 \alpha_2^2 \beta_1^4 \beta_2^4 - \\
& 10 u^2 z^2 \alpha_2^2 \beta_1^4 \beta_2^4 + 4 z \alpha_1^5 \beta_2^5 - 12 u z \alpha_1^5 \beta_2^5 - 4 u^2 z \alpha_1^5 \beta_2^5 + 12 u^3 z \alpha_1^5 \beta_2^5 + \\
& 28 z^2 \alpha_1^5 \beta_2^5 - 24 u z^2 \alpha_1^5 \beta_2^5 - 4 u^2 z^2 \alpha_1^5 \beta_2^5 - 12 z^3 \alpha_1^5 \beta_2^5 + 12 u z^3 \alpha_1^5 \beta_2^5 + \\
& 16 z \alpha_1^4 \alpha_2 \beta_2^5 - 48 u z \alpha_1^4 \alpha_2 \beta_2^5 + 32 u^2 z \alpha_1^4 \alpha_2 \beta_2^5 + 106 z^2 \alpha_1^4 \alpha_2 \beta_2^5 - \\
& 132 u z^2 \alpha_1^4 \alpha_2 \beta_2^5 + 2 u^2 z^2 \alpha_1^4 \alpha_2 \beta_2^5 - 42 z^3 \alpha_1^4 \alpha_2 \beta_2^5 + 66 u z^3 \alpha_1^4 \alpha_2 \beta_2^5 + \\
& 16 z \alpha_1^3 \alpha_2^2 \beta_2^5 + 44 u z \alpha_1^3 \alpha_2^2 \beta_2^5 - 60 u^2 z \alpha_1^3 \alpha_2^2 \beta_2^5 + 82 z^2 \alpha_1^3 \alpha_2^2 \beta_2^5 - \\
& 132 u z^2 \alpha_1^3 \alpha_2^2 \beta_2^5 + 2 u^2 z^2 \alpha_1^3 \alpha_2^2 \beta_2^5 - 18 z^3 \alpha_1^3 \alpha_2^2 \beta_2^5 + 66 u z^3 \alpha_1^3 \alpha_2^2 \beta_2^5 + \\
& 92 u z \alpha_1^2 \alpha_2^3 \beta_2^5 - 136 u^2 z \alpha_1^2 \alpha_2^3 \beta_2^5 + 60 u^3 z \alpha_1^2 \alpha_2^3 \beta_2^5 - 48 z^2 \alpha_1^2 \alpha_2^3 \beta_2^5 + \\
& 128 u z^2 \alpha_1^2 \alpha_2^3 \beta_2^5 + 2 u^2 z^2 \alpha_1^2 \alpha_2^3 \beta_2^5 + 48 z^3 \alpha_1^2 \alpha_2^3 \beta_2^5 - 66 u z^3 \alpha_1^2 \alpha_2^3 \beta_2^5 - \\
& 16 u z \alpha_1 \alpha_2^4 \beta_2^5 + 32 u^2 z \alpha_1 \alpha_2^4 \beta_2^5 - 24 z^2 \alpha_1 \alpha_2^4 \beta_2^5 + 128 u z^2 \alpha_1 \alpha_2^4 \beta_2^5 + \\
& 2 u^2 z^2 \alpha_1 \alpha_2^4 \beta_2^5 + 24 z^3 \alpha_1 \alpha_2^4 \beta_2^5 - 66 u z^3 \alpha_1 \alpha_2^4 \beta_2^5 - 16 u z \alpha_2^5 \beta_2^5 +
\end{aligned}$$

$$\begin{aligned}
& 32 u^2 z \alpha^5 \beta^5 - 12 u^3 z \alpha^5 \beta^5 + 32 u z^2 \alpha^5 \beta^5 - 4 u^2 z^2 \alpha^5 \beta^5 - 12 u z^3 \alpha^5 \beta^5 + \\
& 12 u^2 \alpha^4 \beta^1 \beta^5 - 24 u^3 \alpha^4 \beta^1 \beta^5 + 12 u^4 \alpha^4 \beta^1 \beta^5 + 12 z \alpha^4 \beta^1 \beta^5 - 6 u z \alpha^4 \beta^1 \beta^5 - \\
& 48 u^2 z \alpha^4 \beta^1 \beta^5 + 42 u^3 z \alpha^4 \beta^1 \beta^5 + 48 z^2 \alpha^4 \beta^1 \beta^5 - 24 u z^2 \alpha^4 \beta^1 \beta^5 - \\
& 24 u^2 z^2 \alpha^4 \beta^1 \beta^5 - 48 u^2 \alpha^3 \alpha^2 \beta^1 \beta^5 + 96 u^3 \alpha^3 \alpha^2 \beta^1 \beta^5 - 48 u^4 \alpha^3 \alpha^2 \beta^1 \beta^5 + \\
& 48 z \alpha^3 \alpha^2 \beta^1 \beta^5 - 60 u z \alpha^3 \alpha^2 \beta^1 \beta^5 + 96 u^2 z \alpha^3 \alpha^2 \beta^1 \beta^5 - 84 u^3 z \alpha^3 \alpha^2 \beta^1 \beta^5 + \\
& 192 z^2 \alpha^3 \alpha^2 \beta^1 \beta^5 - 156 u z^2 \alpha^3 \alpha^2 \beta^1 \beta^5 - 36 u^2 z^2 \alpha^3 \alpha^2 \beta^1 \beta^5 + 72 u^2 \alpha^1^2 \alpha^2^2 \beta^1 \beta^5 - \\
& 144 u^3 \alpha^1^2 \alpha^2^2 \beta^1 \beta^5 + 72 u^4 \alpha^1^2 \alpha^2^2 \beta^1 \beta^5 + 48 z \alpha^1^2 \alpha^2^2 \beta^1 \beta^5 - 30 u z \alpha^1^2 \alpha^2^2 \beta^1 \beta^5 + \\
& 30 u^2 z \alpha^1^2 \alpha^2^2 \beta^1 \beta^5 + 192 z^2 \alpha^1^2 \alpha^2^2 \beta^1 \beta^5 - 120 u z^2 \alpha^1^2 \alpha^2^2 \beta^1 \beta^5 + \\
& 120 u^2 z^2 \alpha^1^2 \alpha^2^2 \beta^1 \beta^5 - 48 u^2 \alpha^1 \alpha^2^3 \beta^1 \beta^5 + 96 u^3 \alpha^1 \alpha^2^3 \beta^1 \beta^5 - 48 u^4 \alpha^1 \alpha^2^3 \beta^1 \beta^5 + \\
& 120 u z \alpha^1 \alpha^2^3 \beta^1 \beta^5 - 156 u^2 z \alpha^1 \alpha^2^3 \beta^1 \beta^5 + 84 u^3 z \alpha^1 \alpha^2^3 \beta^1 \beta^5 + \\
& 228 u z^2 \alpha^1 \alpha^2^3 \beta^1 \beta^5 - 36 u^2 z^2 \alpha^1 \alpha^2^3 \beta^1 \beta^5 + 12 u^2 \alpha^2^4 \beta^1 \beta^5 - 24 u^3 \alpha^2^4 \beta^1 \beta^5 + \\
& 12 u^4 \alpha^2^4 \beta^1 \beta^5 - 24 u z \alpha^2^4 \beta^1 \beta^5 + 78 u^2 z \alpha^2^4 \beta^1 \beta^5 - 42 u^3 z \alpha^2^4 \beta^1 \beta^5 + \\
& 72 u z^2 \alpha^2^4 \beta^1 \beta^5 - 24 u^2 z^2 \alpha^2^4 \beta^1 \beta^5 + 12 z \alpha^1^3 \beta^1^2 \beta^5 + 6 u z \alpha^1^3 \beta^1^2 \beta^5 - \\
& 12 u^2 z \alpha^1^3 \beta^1^2 \beta^5 - 6 u^3 z \alpha^1^3 \beta^1^2 \beta^5 + 12 z^2 \alpha^1^3 \beta^1^2 \beta^5 - 12 u^2 z^2 \alpha^1^3 \beta^1^2 \beta^5 + \\
& 48 z \alpha^1^2 \alpha^2 \beta^1^2 \beta^5 - 12 u z \alpha^1^2 \alpha^2 \beta^1^2 \beta^5 - 6 u^2 z \alpha^1^2 \alpha^2 \beta^1^2 \beta^5 + 18 u^3 z \alpha^1^2 \alpha^2 \beta^1^2 \beta^5 + \\
& 48 z^2 \alpha^1^2 \alpha^2 \beta^1^2 \beta^5 - 12 u z^2 \alpha^1^2 \alpha^2 \beta^1^2 \beta^5 + 12 u^2 z^2 \alpha^1^2 \alpha^2 \beta^1^2 \beta^5 + 48 z \alpha^1 \alpha^2^2 \beta^1^2 \beta^5 - \\
& 30 u z \alpha^1 \alpha^2^2 \beta^1^2 \beta^5 + 48 u^2 z \alpha^1 \alpha^2^2 \beta^1^2 \beta^5 - 18 u^3 z \alpha^1 \alpha^2^2 \beta^1^2 \beta^5 + 48 z^2 \alpha^1 \alpha^2^2 \beta^1^2 \beta^5 - \\
& 12 u z^2 \alpha^1 \alpha^2^2 \beta^1^2 \beta^5 + 12 u^2 z^2 \alpha^1 \alpha^2^2 \beta^1^2 \beta^5 + 36 u z \alpha^2^3 \beta^1^2 \beta^5 - 30 u^2 z \alpha^2^3 \beta^1^2 \beta^5 + \\
& 6 u^3 z \alpha^2^3 \beta^1^2 \beta^5 + 24 u z^2 \alpha^2^3 \beta^1^2 \beta^5 - 12 u^2 z^2 \alpha^2^3 \beta^1^2 \beta^5 + 4 z \alpha^1^2 \beta^1^3 \beta^5 + \\
& 8 u z \alpha^1^2 \beta^1^3 \beta^5 + 4 u^2 z \alpha^1^2 \beta^1^3 \beta^5 - 4 z^2 \alpha^1^2 \beta^1^3 \beta^5 - 8 u z^2 \alpha^1^2 \beta^1^3 \beta^5 - \\
& 4 u^2 z^2 \alpha^1^2 \beta^1^3 \beta^5 + 16 z \alpha^1 \alpha^2 \beta^1^3 \beta^5 + 8 u z \alpha^1 \alpha^2 \beta^1^3 \beta^5 - 8 u^2 z \alpha^1 \alpha^2 \beta^1^3 \beta^5 - \\
& 16 z^2 \alpha^1 \alpha^2 \beta^1^3 \beta^5 - 8 u z^2 \alpha^1 \alpha^2 \beta^1^3 \beta^5 + 8 u^2 z^2 \alpha^1 \alpha^2 \beta^1^3 \beta^5 + 16 z \alpha^2^2 \beta^1^3 \beta^5 - \\
& 16 u z \alpha^2^2 \beta^1^3 \beta^5 + 4 u^2 z \alpha^2^2 \beta^1^3 \beta^5 - 16 z^2 \alpha^2^2 \beta^1^3 \beta^5 + 16 u z^2 \alpha^2^2 \beta^1^3 \beta^5 - \\
& 4 u^2 z^2 \alpha^2^2 \beta^1^3 \beta^5 + 4 u^2 \alpha^1^4 \beta^2^6 - 8 u^3 \alpha^1^4 \beta^2^6 + 4 u^4 \alpha^1^4 \beta^2^6 + 12 u z \alpha^1^4 \beta^2^6 - \\
& 24 u^2 z \alpha^1^4 \beta^2^6 + 12 u^3 z \alpha^1^4 \beta^2^6 + 19 z^2 \alpha^1^4 \beta^2^6 - 30 u z^2 \alpha^1^4 \beta^2^6 + 3 u^2 z^2 \alpha^1^4 \beta^2^6 - \\
& 4 z^3 \alpha^1^4 \beta^2^6 + 12 u z^3 \alpha^1^4 \beta^2^6 - 16 u^2 \alpha^1^3 \alpha^2 \beta^2^6 + 32 u^3 \alpha^1^3 \alpha^2 \beta^2^6 - 16 u^4 \alpha^1^3 \alpha^2 \beta^2^6 + \\
& 24 u^2 z \alpha^1^3 \alpha^2 \beta^2^6 - 24 u^3 z \alpha^1^3 \alpha^2 \beta^2^6 + 74 z^2 \alpha^1^3 \alpha^2 \beta^2^6 - 84 u z^2 \alpha^1^3 \alpha^2 \beta^2^6 - \\
& 6 u^2 z^2 \alpha^1^3 \alpha^2 \beta^2^6 - 14 z^3 \alpha^1^3 \alpha^2 \beta^2^6 + 30 u z^3 \alpha^1^3 \alpha^2 \beta^2^6 + 24 u^2 \alpha^1^2 \alpha^2^2 \beta^2^6 - \\
& 48 u^3 \alpha^1^2 \alpha^2^2 \beta^2^6 + 24 u^4 \alpha^1^2 \alpha^2^2 \beta^2^6 - 36 u z \alpha^1^2 \alpha^2^2 \beta^2^6 + 36 u^2 z \alpha^1^2 \alpha^2^2 \beta^2^6 + \\
& 66 z^2 \alpha^1^2 \alpha^2^2 \beta^2^6 - 6 u z^2 \alpha^1^2 \alpha^2^2 \beta^2^6 + 6 u^2 z^2 \alpha^1^2 \alpha^2^2 \beta^2^6 - 6 z^3 \alpha^1^2 \alpha^2^2 \beta^2^6 - \\
& 16 u^2 \alpha^1 \alpha^2^3 \beta^2^6 + 32 u^3 \alpha^1 \alpha^2^3 \beta^2^6 - 16 u^4 \alpha^1 \alpha^2^3 \beta^2^6 + 24 u z \alpha^1 \alpha^2^3 \beta^2^6 - 48 u^2 z \alpha^1 \alpha^2^3 \beta^2^6 + \\
& 24 u^3 z \alpha^1 \alpha^2^3 \beta^2^6 - 16 z^2 \alpha^1 \alpha^2^3 \beta^2^6 + 96 u z^2 \alpha^1 \alpha^2^3 \beta^2^6 - 6 u^2 z^2 \alpha^1 \alpha^2^3 \beta^2^6 + \\
& 16 z^3 \alpha^1 \alpha^2^3 \beta^2^6 - 30 u z^3 \alpha^1 \alpha^2^3 \beta^2^6 + 4 u^2 \alpha^2^4 \beta^2^6 - 8 u^3 \alpha^2^4 \beta^2^6 + 4 u^4 \alpha^2^4 \beta^2^6 + \\
& 12 u^2 z \alpha^2^4 \beta^2^6 - 12 u^3 z \alpha^2^4 \beta^2^6 - 8 z^2 \alpha^2^4 \beta^2^6 + 24 u z^2 \alpha^2^4 \beta^2^6 + 3 u^2 z^2 \alpha^2^4 \beta^2^6 + \\
& 8 z^3 \alpha^2^4 \beta^2^6 - 12 u z^3 \alpha^2^4 \beta^2^6 + 14 u z \alpha^1^3 \beta^1 \beta^2^6 - 14 u^3 z \alpha^1^3 \beta^1 \beta^2^6 + 24 z^2 \alpha^1^3 \beta^1 \beta^2^6 - \\
& 24 u^2 z^2 \alpha^1^3 \beta^1 \beta^2^6 - 42 u^2 z \alpha^1^2 \alpha^2 \beta^1 \beta^2^6 + 42 u^3 z \alpha^1^2 \alpha^2 \beta^1 \beta^2^6 + 96 z^2 \alpha^1^2 \alpha^2 \beta^1 \beta^2^6 - \\
& 24 u z^2 \alpha^1^2 \alpha^2 \beta^1 \beta^2^6 + 24 u^2 z^2 \alpha^1^2 \alpha^2 \beta^1 \beta^2^6 - 42 u z \alpha^1 \alpha^2^2 \beta^1 \beta^2^6 + 84 u^2 z \alpha^1 \alpha^2^2 \beta^1 \beta^2^6 - \\
& 42 u^3 z \alpha^1 \alpha^2^2 \beta^1 \beta^2^6 + 96 z^2 \alpha^1 \alpha^2^2 \beta^1 \beta^2^6 - 24 u z^2 \alpha^1 \alpha^2^2 \beta^1 \beta^2^6 + 24 u^2 z^2 \alpha^1 \alpha^2^2 \beta^1 \beta^2^6 + \\
& 28 u z \alpha^2^3 \beta^1 \beta^2^6 - 42 u^2 z \alpha^2^3 \beta^1 \beta^2^6 + 14 u^3 z \alpha^2^3 \beta^1 \beta^2^6 + 48 u z^2 \alpha^2^3 \beta^1 \beta^2^6 - \\
& 24 u^2 z^2 \alpha^2^3 \beta^1 \beta^2^6 + 4 z^2 \alpha^1^2 \beta^1^2 \beta^2^6 + 8 u z^2 \alpha^1^2 \beta^1^2 \beta^2^6 + 4 u^2 z^2 \alpha^1^2 \beta^1^2 \beta^2^6 + \\
& 16 z^2 \alpha^1 \alpha^2 \beta^1^2 \beta^2^6 + 8 u z^2 \alpha^1 \alpha^2 \beta^1^2 \beta^2^6 - 8 u^2 z^2 \alpha^1 \alpha^2 \beta^1^2 \beta^2^6 + 16 z^2 \alpha^2^2 \beta^1^2 \beta^2^6 - \\
& 16 u z^2 \alpha^2^2 \beta^1^2 \beta^2^6 + 4 u^2 z^2 \alpha^2^2 \beta^1^2 \beta^2^6 + 4 u z \alpha^1^3 \beta^2^7 - 4 u^3 z \alpha^1^3 \beta^2^7 + 6 z^2 \alpha^1^3 \beta^2^7 - \\
& 6 u^2 z^2 \alpha^1^3 \beta^2^7 - 12 u^2 z \alpha^1^2 \alpha^2 \beta^2^7 + 12 u^3 z \alpha^1^2 \alpha^2 \beta^2^7 + 24 z^2 \alpha^1^2 \alpha^2 \beta^2^7 - 6 u z^2 \alpha^1^2 \alpha^2 \beta^2^7 + \\
& 6 u^2 z^2 \alpha^1^2 \alpha^2 \beta^2^7 - 12 u z \alpha^1 \alpha^2^2 \beta^2^7 + 24 u^2 z \alpha^1 \alpha^2^2 \beta^2^7 - 12 u^3 z \alpha^1 \alpha^2^2 \beta^2^7 + \\
& 24 z^2 \alpha^1 \alpha^2^2 \beta^2^7 - 6 u z^2 \alpha^1 \alpha^2^2 \beta^2^7 + 6 u^2 z^2 \alpha^1 \alpha^2^2 \beta^2^7 + 8 u z \alpha^2^3 \beta^2^7 - 12 u^2 z \alpha^2^3 \beta^2^7 + \\
& 4 u^3 z \alpha^2^3 \beta^2^7 + 12 u z^2 \alpha^2^3 \beta^2^7 - 6 u^2 z^2 \alpha^2^3 \beta^2^7 + 4 z^2 \alpha^1^2 \beta^1 \beta^2^7 + 8 u z^2 \alpha^1^2 \beta^1 \beta^2^7 + \\
& 4 u^2 z^2 \alpha^1^2 \beta^1 \beta^2^7 + 16 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2^7 + 8 u z^2 \alpha^1 \alpha^2 \beta^1 \beta^2^7 - 8 u^2 z^2 \alpha^1 \alpha^2 \beta^1 \beta^2^7 +
\end{aligned}$$

$$\begin{aligned}
& 16 z^2 \alpha^2 \beta_1 \beta_2^7 - 16 u z^2 \alpha^2 \beta_1 \beta_2^7 + 4 u^2 z^2 \alpha^2 \beta_1 \beta_2^7 + z^2 \alpha^1 \beta_2^8 + 2 u z^2 \alpha^1 \beta_2^8 + \\
& u^2 z^2 \alpha^1 \beta_2^8 + 4 z^2 \alpha_1 \alpha_2 \beta_2^8 + 2 u z^2 \alpha_1 \alpha_2 \beta_2^8 - 2 u^2 z^2 \alpha_1 \alpha_2 \beta_2^8 + 4 z^2 \alpha^2 \beta_2^8 - \\
& 4 u z^2 \alpha^2 \beta_2^8 + u^2 z^2 \alpha^2 \beta_2^8 + q^2 (\alpha_1 + u \alpha_1 + 2 \alpha_2 - u \alpha_2)^2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2)^2 + \\
& p^2 ((1 - u) \alpha^1 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) + \alpha_1 (2 \alpha_2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) - \\
& (1 + u) ((-1 + z) \beta_1^2 - 2 \beta_1 \beta_2 - z \beta_2^2)) + \alpha_2 (-2 (-1 + z) \beta_1^2 + 4 \beta_1 \beta_2 + \\
& 2 z \beta_2^2 + u ((-1 + z) \beta_1^2 - 2 \beta_1 \beta_2 - z \beta_2^2 + \alpha_2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2)))^2 - \\
& 2 q ((-1 + u^2) \alpha^1 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2)^2 + \alpha^1 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) \\
& ((1 - z) (-3 + 3 u^2 - 2 z + 6 u z) \beta_1^2 + 2 (-3 + 3 u^2 + 2 z + 6 u (-1 + z) z - 2 z^2) \beta_1 \beta_2 + \\
& z (-5 + 3 u^2 - 6 u (-1 + z) + 2 z) \beta_2^2 + (-4 + 3 u + u^2) \alpha_2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2)) - \\
& \alpha^1 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) \\
& (2 (2 - 3 u + u^2) \alpha^2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2)^2 + \alpha_2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) \\
& ((-1 + z) (-12 + 3 u^2 - 7 z + 3 u (3 + 5 z)) \beta_1^2 - \\
& 2 (-12 + 3 u^2 + 7 z - 7 z^2 + 3 u (3 - 5 z + 5 z^2)) \beta_1 \beta_2 + \\
& z (19 - 3 u^2 - 7 z + 3 u (-8 + 5 z)) \beta_2^2) + (-1 + u^2) ((-3 - 2 u + 6 u z + 3 z^2) \beta_1^4 + \\
& (u (-7 + 15 z) + 3 (-4 + 3 z + z^2)) \beta_1^3 \beta_2 - 3 (4 + u - 4 z + 4 z^2) \beta_1^2 \beta_2^2 + \\
& (u (8 - 15 z) + 3 (-5 + z) z) \beta_1 \beta_2^3 + (u (4 - 6 z) + 3 (-2 + z) z) \beta_2^4)) + \\
& \alpha^1 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) (3 u^3 \alpha_2 ((-1 + 3 z) \beta_1 + (-2 + 3 z) \beta_2) (2 \beta_1^3 + 3 \beta_1^2 \beta_2 - 3 \beta_1 \beta_2^2 - 2 \beta_2^3) + \\
& (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) ((-1 + z) \beta_1^4 + 2 (-1 + z) \beta_1^3 \beta_2 - 2 z \beta_1 \beta_2^3 - \\
& z \beta_2^4 + 3 \alpha^2 ((-4 + 3 z + z^2) \beta_1^2 - 2 (4 - z + z^2) \beta_1 \beta_2 + (-5 + z) z \beta_2^2) + \\
& 12 \alpha_2 ((-1 + z) \beta_1^3 + 2 (-1 + z) \beta_1^2 \beta_2 - 2 z \beta_1 \beta_2^2 - z \beta_2^3)) - \\
& u^2 ((1 - z^2) \beta_1^5 - (-4 + 3 z + z^2) \beta_1^4 \beta_2 + 2 (2 - 3 z + z^2) \beta_1^3 \beta_2^2 + 2 z (1 + z) \beta_1^2 \beta_2^3 - \\
& (-5 + z) z \beta_1 \beta_2^4 - (-2 + z) z \beta_2^5 + 2 \alpha^2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2)^2 - 12 \alpha^2 \\
& ((-1 + z^2) \beta_1^3 + (-4 + z - z^2) \beta_1^2 \beta_2 + (-4 + z - z^2) \beta_1 \beta_2^2 + (-2 + z) z \beta_2^3) - \\
& 3 \alpha_2 ((1 - 6 z + z^2) \beta_1^4 + (3 - 12 z + z^2) \beta_1^3 \beta_2 - (1 - 2 z)^2 \beta_1^2 \beta_2^2 + (-8 + 10 z + \\
& z^2) \beta_1 \beta_2^3 + (-4 + 4 z + z^2) \beta_2^4)) - u (2 \alpha^2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2)^2 + 12 \\
& \alpha^2 ((-1 + z^2) \beta_1^3 + (-4 + z - z^2) \beta_1^2 \beta_2 + (-4 + z - z^2) \beta_1 \beta_2^2 + (-2 + z) z \beta_2^3) + \\
& 3 \alpha_2 ((-1 + z^2) \beta_1^4 + (-4 + 3 z + z^2) \beta_1^3 \beta_2 - 4 (1 - z + z^2) \beta_1^2 \beta_2^2 + (-5 + z) z \beta_1 \\
& \beta_2^3 + (-2 + z) z \beta_2^4) - 2 ((-1 + z^2) \beta_1^5 + (-4 + 3 z + z^2) \beta_1^4 \beta_2 - 2 (2 - 3 z + \\
& z^2) \beta_1^3 \beta_2^2 - 2 z (1 + z) \beta_1^2 \beta_2^3 + (-5 + z) z \beta_1 \beta_2^4 + (-2 + z) z \beta_2^5)) + \\
& \alpha^2 (u^3 \alpha_2 ((-1 + 3 z) \beta_1 + (-2 + 3 z) \beta_2) (2 \beta_1^3 + 3 \beta_1^2 \beta_2 - 3 \beta_1 \beta_2^2 - 2 \beta_2^3) + \\
& u^2 ((-1 + z^2) \beta_1^5 + (-4 + 3 z + z^2) \beta_1^4 \beta_2 - 2 (2 - 3 z + z^2) \beta_1^3 \beta_2^2 - 2 z (1 + z) \beta_1^2 \\
& \beta_2^3 + (-5 + z) z \beta_1 \beta_2^4 + (-2 + z) z \beta_2^5 + \alpha^2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2)^2 - 3 \alpha^2 \\
& ((-1 + z^2) \beta_1^3 + (-4 + z - z^2) \beta_1^2 \beta_2 + (-4 + z - z^2) \beta_1 \beta_2^2 + (-2 + z) z \beta_2^3) - \\
& 3 \alpha_2 ((-3 + 6 z + z^2) \beta_1^4 + (-11 + 18 z + z^2) \beta_1^3 \beta_2 + \\
& (-7 + 4 z - 4 z^2) \beta_1^2 \beta_2^2 + (8 - 20 z + z^2) \beta_1 \beta_2^3 + (4 - 8 z + z^2) \beta_2^4)) - \\
& 2 u (\alpha^2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2)^2 - 3 \alpha^2 ((-1 + z) \beta_1 - z \beta_2) \\
& (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2)^2 - \alpha_2 ((-5 + 6 z + 3 z^2) \beta_1^4 + (-19 + 24 z + 3 z^2) \beta_1^3 \beta_2 - \\
& 3 (5 - 4 z + 4 z^2) \beta_1^2 \beta_2^2 + (8 - 30 z + 3 z^2) \beta_1 \beta_2^3 + (4 - 12 z + 3 z^2) \beta_2^4) + \\
& 2 ((-1 + z^2) \beta_1^5 + (-4 + 3 z + z^2) \beta_1^4 \beta_2 - 2 (2 - 3 z + z^2) \beta_1^3 \beta_2^2 - 2 z (1 + z) \\
& \beta_1^2 \beta_2^3 + (-5 + z) z \beta_1 \beta_2^4 + (-2 + z) z \beta_2^5)) - 4 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) \\
& (z^2 \alpha^2 (\beta_1 - \beta_2)^2 + \beta_1^3 (\beta_1 + 2 \beta_2) - z (\beta_1 - \beta_2) (\alpha^2 (\beta_1 - \beta_2) + (\beta_1 + \beta_2)^3))) + \\
& p (\alpha_1 + u \alpha_1 + 2 \alpha_2 - u \alpha_2) (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) \\
& ((-1 + u) \alpha^1 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) - 2 \alpha_1 \alpha_2 (\beta_1 + z \beta_1 + 2 \beta_2 - z \beta_2) + \\
& (1 + u) \alpha_1 ((-1 + z) \beta_1^2 - 2 \beta_1 \beta_2 - z \beta_2^2) - \alpha_2 (-2 (-1 + z) \beta_1^2 + 4 \beta_1 \beta_2 +
\end{aligned}$$

$$\begin{aligned}
& 2 z \beta 2^2 + u \left((-1 + z) \beta 1^2 - 2 \beta 1 \beta 2 - z \beta 2^2 + \alpha 2 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2) \right) + \\
& \alpha 1 \alpha 2 \left(-3 u^3 \alpha 2 \left((-1 + 3 z) \beta 1 + (-2 + 3 z) \beta 2 \right) (2 \beta 1^3 + 3 \beta 1^2 \beta 2 - 3 \beta 1 \beta 2^2 - 2 \beta 2^3) + \right. \\
& u^2 \left(\alpha 2^3 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2)^2 - 3 \alpha 2^2 \left((-1 + z^2) \beta 1^3 + (-4 + z - z^2) \beta 1^2 \beta 2 + \right. \right. \\
& \quad (-4 + z - z^2) \beta 1 \beta 2^2 + (-2 + z) z \beta 2^3) + 3 \alpha 2 \left((-5 + 12 z + z^2) \beta 1^4 + \right. \\
& \quad (-18 + 33 z + z^2) \beta 1^3 \beta 2 - 2 (5 - 2 z + 2 z^2) \beta 1^2 \beta 2^2 + (16 - 35 z + z^2) \beta 1 \beta 2^3 + \\
& \quad (8 - 14 z + z^2) \beta 2^4) - 2 \left((-1 + z^2) \beta 1^5 + (-4 + 3 z + z^2) \beta 1^4 \beta 2 - 2 (2 - 3 z + \right. \\
& \quad \left. z^2) \beta 1^3 \beta 2^2 - 2 z (1 + z) \beta 1^2 \beta 2^3 + (-5 + z) z \beta 1 \beta 2^4 + (-2 + z) z \beta 2^5) \right) - \\
& u \left(5 \alpha 2^3 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2)^2 - 15 \alpha 2^2 \left((-1 + z) \beta 1 - z \beta 2 \right) \right. \\
& \quad (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2)^2 + 3 \alpha 2 \left((-3 + 6 z + z^2) \beta 1^4 + (-11 + 18 z + z^2) \beta 1^3 \beta 2 + \right. \\
& \quad (-7 + 4 z - 4 z^2) \beta 1^2 \beta 2^2 + (8 - 20 z + z^2) \beta 1 \beta 2^3 + (4 - 8 z + z^2) \beta 2^4) - \\
& \quad 2 \left((-1 + z^2) \beta 1^5 + (-4 + 3 z + z^2) \beta 1^4 \beta 2 - 2 (2 - 3 z + z^2) \beta 1^3 \beta 2^2 - \right. \\
& \quad \left. 2 z (1 + z) \beta 1^2 \beta 2^3 + (-5 + z) z \beta 1 \beta 2^4 + (-2 + z) z \beta 2^5) \right) - \\
& 4 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2) \left(2 z^2 \alpha 2^2 (\beta 1 - \beta 2)^2 + \beta 1^2 (3 \alpha 2 + \beta 1) (\beta 1 + 2 \beta 2) - \right. \\
& \quad \left. z (\beta 1 - \beta 2) \left(2 \alpha 2^2 (\beta 1 - \beta 2) + (\beta 1 + \beta 2)^3 + 3 \alpha 2 (\beta 1^2 + 3 \beta 1 \beta 2 + \beta 2^2) \right) \right) + \\
& 2 p \left((-1 + u)^2 \alpha 1^6 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2)^2 + 2 (-1 + u) \alpha 1^5 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2) \right. \\
& \quad \left((-2 + u + z - u z + z^2) \beta 1^2 + 2 (-2 + u + z - z^2) \beta 1 \beta 2 + \right. \\
& \quad \left. z (-3 + u + z) \beta 2^2 + (-2 + u) \alpha 2 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2) \right) + \\
& \alpha 1^4 \left(2 (3 + u^3 (1 - 3 z) - 2 z - 2 z^2 + z^3 + u^2 (-2 + z + 5 z^2) + u (-2 + 2 z + z^2 - 3 z^3)) \beta 1^4 + \right. \\
& \quad (24 + u^3 (7 - 15 z) - 21 z + z^2 - 4 z^3 + u^2 (-14 + 25 z + 5 z^2) + \\
& \quad u (-17 + 11 z - 14 z^2 + 12 z^3)) \beta 1^3 \beta 2 + 3 (u^3 + 4 (2 - z + z^2) + \\
& \quad u (-7 - 2 z + 2 z^2) - 2 u^2 (1 - 5 z + 5 z^2)) \beta 1^2 \beta 2^2 + (u^3 (-8 + 15 z) + \\
& \quad z (31 - 11 z + 4 z^2) + u^2 (16 - 35 z + 5 z^2) - u (8 + 19 z - 22 z^2 + 12 z^3)) \beta 1 \beta 2^3 + \\
& \quad 2 (u^3 (-2 + 3 z) + z (3 + z - z^2) + u^2 (4 - 11 z + 5 z^2) + u (-2 + 5 z - 8 z^2 + 3 z^3)) \beta 2^4 - \\
& \quad (-4 + 3 u + u^2) \alpha 2^2 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2)^2 + \alpha 2 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2) \\
& \quad \left((-1 + z) (-16 - 5 u^2 - 7 z + u (21 + 11 z)) \beta 1^2 + 2 (16 + 5 u^2 - 7 z + 7 z^2 + \right. \\
& \quad \left. u (-21 + 11 z - 11 z^2)) \beta 1 \beta 2 + z (23 + 5 u^2 - 7 z + u (-32 + 11 z)) \beta 2^2 \right) + \\
& \alpha 1^3 \left(4 \beta 1^5 - 6 z \beta 1^5 + 2 z^2 \beta 1^5 + 16 \beta 1^4 \beta 2 - 21 z \beta 1^4 \beta 2 + 5 z^2 \beta 1^4 \beta 2 + 16 \beta 1^3 \beta 2^2 - \right. \\
& \quad 9 z \beta 1^3 \beta 2^2 - 7 z^2 \beta 1^3 \beta 2^2 + 23 z \beta 1^2 \beta 2^3 - 7 z^2 \beta 1^2 \beta 2^3 + 11 z \beta 1 \beta 2^4 + 5 z^2 \beta 1 \beta 2^4 + \\
& \quad 2 z \beta 2^5 + 2 z^2 \beta 2^5 + \alpha 2^2 \left((16 + 3 z - 16 z^2 - 3 z^3) \beta 1^3 + (64 - 16 z + 7 z^2 + 9 z^3) \beta 1^2 \beta 2 + \right. \\
& \quad (64 - 25 z + 34 z^2 - 9 z^3) \beta 1 \beta 2^2 + z (38 - 25 z + 3 z^2) \beta 2^3) + \alpha 2 \\
& \quad \left((24 - 17 z - 14 z^2 + 7 z^3) \beta 1^4 + 2 (48 - 42 z + z^2 - 7 z^3) \beta 1^3 \beta 2 + 3 (32 - 15 z + 15 z^2) \right. \\
& \quad \left. \beta 1^2 \beta 2^2 + 2 z (61 - 20 z + 7 z^2) \beta 1 \beta 2^3 + z (24 + 7 z - 7 z^2) \beta 2^4) + \right. \\
& u^3 \left(2 \beta 1^3 + 3 \beta 1^2 \beta 2 - 3 \beta 1 \beta 2^2 - 2 \beta 2^3 \right) \left((-1 + z) \beta 1^2 + 2 (-1 + 2 z) \beta 1 \beta 2 + \right. \\
& \quad \left. z \beta 2^2 + \alpha 2 (-2 \beta 1 + 6 z \beta 1 - 4 \beta 2 + 6 z \beta 2) \right) + u \left(4 \alpha 2^3 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2)^2 - \right. \\
& \quad \left((-1 + z) \beta 1^2 + 2 (-1 + 2 z) \beta 1 \beta 2 + z \beta 2^2 \right) (2 \beta 1^3 + 3 \beta 1^2 \beta 2 - 3 \beta 1 \beta 2^2 - 2 \beta 2^3) + \\
& \quad \alpha 2^2 \left((-9 - 11 z + 9 z^2 + 11 z^3) \beta 1^3 + 3 (-12 + 3 z + 8 z^2 - 11 z^3) \beta 1^2 \beta 2 + \right. \\
& \quad 3 (-12 + 14 z - 25 z^2 + 11 z^3) \beta 1 \beta 2^2 + z (-40 + 42 z - 11 z^2) \beta 2^3) - \\
& \quad \alpha 2 \left((21 - 11 z - 25 z^2 + 15 z^3) \beta 1^4 + 2 (42 - 38 z + 11 z^2 - 15 z^3) \beta 1^3 \beta 2 + \right. \\
& \quad 3 (28 - 17 z + 17 z^2) \beta 1^2 \beta 2^2 + 2 z (61 - 34 z + 15 z^2) \beta 1 \beta 2^3 + \\
& \quad \left. z (16 + 20 z - 15 z^2) \beta 2^4) \right) - u^2 \left(2 (2 - 3 z + z^2) \beta 1^5 + \right. \\
& \quad (16 - 21 z + 5 z^2) \beta 1^4 \beta 2 + (16 - 9 z - 7 z^2) \beta 1^3 \beta 2^2 + (23 - 7 z) z \beta 1^2 \beta 2^3 + \\
& \quad z (11 + 5 z) \beta 1 \beta 2^4 + 2 z (1 + z) \beta 2^5 + 4 \alpha 2^3 (\beta 1 + z \beta 1 + 2 \beta 2 - z \beta 2)^2 - 7 \alpha 2^2 \\
& \quad \left((-1 + z^2) \beta 1^3 + (-4 + z - z^2) \beta 1^2 \beta 2 + (-4 + z - z^2) \beta 1 \beta 2^2 + (-2 + z) z \beta 2^3 \right) -
\end{aligned}$$

$$\begin{aligned}
& \alpha^2 \left((1 - 14z + 5z^2) \beta_1^4 + 2(1 - 11z + 2z^2) \beta_1^3 \beta_2 - 6(1 - 3z + 3z^2) \beta_1^2 \beta_2^2 + \right. \\
& \quad \left. 2(-8 + 7z + 2z^2) \beta_1 \beta_2^3 + (-8 + 4z + 5z^2) \beta_2^4 \right) + \alpha^2 \left(\beta_1^2 (24\alpha^2 + \right. \\
& \quad 16\alpha^2 \beta_1 + \beta_1^2) (\beta_1 + 2\beta_2)^2 - 3u^3 \alpha^2 ((-1 + z) \beta_1^2 + 2(-1 + 2z) \beta_1 \beta_2 + z \beta_2^2) \\
& \quad (2\beta_1^3 + 3\beta_1^2 \beta_2 - 3\beta_1 \beta_2^2 - 2\beta_2^3) + z^3 \alpha^2 (\beta_1 - \beta_2)^3 (8\alpha^2 + 3(\beta_1 + \beta_2)) - \\
& \quad z(\beta_1^2 + \beta_1 \beta_2 - 2\beta_2^2) (8\alpha^2^3 (\beta_1 - \beta_2) + 3\alpha^2^2 (7\beta_1^2 + 21\beta_1 \beta_2 + 4\beta_2^2) + \\
& \quad \beta_1 (2\beta_1^3 + 4\beta_1^2 \beta_2 + 3\beta_1 \beta_2^2 + \beta_2^3) + 4\alpha^2 (6\beta_1^3 + 15\beta_1^2 \beta_2 + 6\beta_1 \beta_2^2 + \beta_2^3)) + \\
& \quad z^2 (\beta_1 - \beta_2)^2 (24\alpha^2^3 \beta_2 + (\beta_1 + \beta_2)^4 - 3\alpha^2^2 (2\beta_1^2 + 6\beta_1 \beta_2 - \beta_2^2) + \\
& \quad 4\alpha^2 (2\beta_1^3 + 9\beta_1^2 \beta_2 + 9\beta_1 \beta_2^2 + 2\beta_2^3)) - u^2 ((-1 + z)^2 \beta_1^6 - \\
& \quad 2(2 - 3z + z^2) \beta_1^5 \beta_2 + (-4 + 3z + z^2) \beta_1^4 \beta_2^2 + 4(-1 + z) z \beta_1^3 \beta_2^3 + \\
& \quad (-5 + z) z \beta_1^2 \beta_2^4 - 2z(1 + z) \beta_1 \beta_2^5 - z^2 \beta_2^6 + \alpha^2^4 (\beta_1 + z \beta_1 + 2\beta_2 - z \beta_2)^2 - 7 \\
& \quad \alpha^2^3 ((-1 + z^2) \beta_1^3 + (-4 + z - z^2) \beta_1^2 \beta_2 + (-4 + z - z^2) \beta_1 \beta_2^2 + (-2 + z) z \beta_2^3) + \\
& \quad 3\alpha^2^2 (2(-2 - z + 5z^2) \beta_1^4 + (-15 + 17z + 6z^2) \beta_1^3 \beta_2 + \\
& \quad (-11 + 32z - 32z^2) \beta_1^2 \beta_2^2 + (8 - 29z + 6z^2) \beta_1 \beta_2^3 + 2(2 - 9z + 5z^2) \beta_2^4) - \\
& \quad \alpha^2 (2(-1 + z^2) \beta_1^5 + (-5 + 12z + 5z^2) \beta_1^4 \beta_2 + (7 + 24z - 7z^2) \beta_1^3 \beta_2^2 + \\
& \quad (24 - 10z - 7z^2) \beta_1^2 \beta_2^3 + (12 - 22z + 5z^2) \beta_1 \beta_2^4 + 2(-2 + z) z \beta_2^5) + \\
& \quad u (5\alpha^2^4 (\beta_1 + z \beta_1 + 2\beta_2 - z \beta_2)^2 + \alpha^2^3 ((23 + 11z - 23z^2 - 11z^3) \beta_1^3 + (92 - 23z - \\
& \quad 10z^2 + 33z^3) \beta_1^2 \beta_2 + (92 - 56z + 89z^2 - 33z^3) \beta_1 \beta_2^2 + z(68 - 56z + \\
& \quad 11z^2) \beta_2^3) + 3\alpha^2^2 (2(-2 - z + 5z^2) \beta_1^4 + (-15 + 17z + 6z^2) \beta_1^3 \beta_2 + \\
& \quad (-11 + 32z - 32z^2) \beta_1^2 \beta_2^2 + (8 - 29z + 6z^2) \beta_1 \beta_2^3 + 2(2 - 9z + 5z^2) \beta_2^4) - \\
& \quad \alpha^2 (2(2 - 3z + z^2) \beta_1^5 + (16 - 21z + 5z^2) \beta_1^4 \beta_2 + (16 - 9z - 7z^2) \beta_1^3 \beta_2^2 + \\
& \quad (23 - 7z) z \beta_1^2 \beta_2^3 + z(11 + 5z) \beta_1 \beta_2^4 + 2z(1 + z) \beta_2^5) + \\
& \quad 2((-1 + z)^2 \beta_1^6 + 2(2 - 3z + z^2) \beta_1^5 \beta_2 - (-4 + 3z + z^2) \beta_1^4 \beta_2^2 - \\
& \quad 4(-1 + z) z \beta_1^3 \beta_2^3 - (-5 + z) z \beta_1^2 \beta_2^4 + 2z(1 + z) \beta_1 \beta_2^5 + z^2 \beta_2^6)) + \\
& \quad \alpha^2^2 (u^3 \alpha^2 ((-1 + 3z) \alpha^2 \beta_1 + \beta_1^2 - z \beta_1^2 + (-2 + 3z) \alpha^2 \beta_2 + 2\beta_1 \beta_2 - 4z \beta_1 \beta_2 - z \beta_2^2) \\
& \quad (2\beta_1^3 + 3\beta_1^2 \beta_2 - 3\beta_1 \beta_2^2 - 2\beta_2^3) + u^2 ((-1 + z)^2 \beta_1^6 + 2(2 - 3z + z^2) \beta_1^5 \beta_2 - \\
& \quad (-4 + 3z + z^2) \beta_1^4 \beta_2^2 - 4(-1 + z) z \beta_1^3 \beta_2^3 - (-5 + z) z \beta_1^2 \beta_2^4 + \\
& \quad 2z(1 + z) \beta_1 \beta_2^5 + z^2 \beta_2^6 + \alpha^2^4 (\beta_1 + z \beta_1 + 2\beta_2 - z \beta_2)^2 + \alpha^2^2 \\
& \quad ((1 - 8z + 5z^2) \beta_1 + (2 + 2z - 5z^2) \beta_2) (2\beta_1^3 + 3\beta_1^2 \beta_2 - 3\beta_1 \beta_2^2 - 2\beta_2^3) - 2 \\
& \quad \alpha^2^3 ((-1 + z^2) \beta_1^3 + (-4 + z - z^2) \beta_1^2 \beta_2 + (-4 + z - z^2) \beta_1 \beta_2^2 + (-2 + z) z \beta_2^3) - \\
& \quad \alpha^2 (2(5 - 6z + z^2) \beta_1^5 + (37 - 54z + 5z^2) \beta_1^4 \beta_2 + (25 - 42z - 7z^2) \beta_1^3 \beta_2^2 + \\
& \quad (-24 + 56z - 7z^2) \beta_1^2 \beta_2^3 + (-12 + 44z + 5z^2) \beta_1 \beta_2^4 + 2z(4 + z) \beta_2^5) - \\
& \quad 2u (\alpha^2^3 ((-1 + z) \beta_1 - z \beta_2) (\beta_1 + z \beta_1 + 2\beta_2 - z \beta_2)^2 - \\
& \quad \alpha^2^2 ((3 + 5z - 11z^2 + 3z^3) \beta_1^4 + 2(6 - 4z + z^2 - 3z^3) \beta_1^3 \beta_2 + \\
& \quad 3(4 - 9z + 9z^2) \beta_1^2 \beta_2^2 + 2z(11 - 8z + 3z^2) \beta_1 \beta_2^3 + z(8 - 2z - 3z^2) \beta_2^4) - \\
& \quad \alpha^2 (2(3 - 4z + z^2) \beta_1^5 + (23 - 32z + 5z^2) \beta_1^4 \beta_2 + (19 - 20z - 7z^2) \beta_1^3 \beta_2^2 + \\
& \quad (-8 + 34z - 7z^2) \beta_1^2 \beta_2^3 + (-4 + 22z + 5z^2) \beta_1 \beta_2^4 + 2z(2 + z) \beta_2^5) + \\
& \quad 2((-1 + z)^2 \beta_1^6 + 2(2 - 3z + z^2) \beta_1^5 \beta_2 - (-4 + 3z + z^2) \beta_1^4 \beta_2^2 - \\
& \quad 4(-1 + z) z \beta_1^3 \beta_2^3 - (-5 + z) z \beta_1^2 \beta_2^4 + 2z(1 + z) \beta_1 \beta_2^5 + z^2 \beta_2^6)) - \\
& \quad 4((-1 + z) \beta_1^2 - 2\beta_1 \beta_2 - z \beta_2^2) (z^2 \alpha^2^2 (\beta_1 - \beta_2)^2 + \beta_1^3 (\beta_1 + 2\beta_2) - \\
& \quad z(\beta_1 - \beta_2) (\alpha^2^2 (\beta_1 - \beta_2) + (\beta_1 + \beta_2)^3)) + \\
& \quad \alpha^2 \alpha^2 (-u^3 \alpha^2 (2\beta_1^3 + 3\beta_1^2 \beta_2 - 3\beta_1 \beta_2^2 - 2\beta_2^3) (\alpha^2 (-2\beta_1 + 6z \beta_1 - 4\beta_2 + 6z \beta_2) - \\
& \quad 3((-1 + z) \beta_1^2 + 2(-1 + 2z) \beta_1 \beta_2 + z \beta_2^2)) + u^2 (2\alpha^2^4 (\beta_1 + z \beta_1 + 2\beta_2 - \\
& \quad z \beta_2)^2 - 5\alpha^2^3 ((-1 + z^2) \beta_1^3 + (-4 + z - z^2) \beta_1^2 \beta_2 + (-4 + z - z^2) \beta_1 \beta_2^2 +
\end{aligned}$$

$$\begin{aligned}
& (-2+z) z \beta 2^3) + \alpha 2^2 ((-11+22 z+5 z^2) \beta 1^4 + 4(-10+17 z+z^2) \beta 1^3 \beta 2 - \\
& 6(4-3 z+3 z^2) \beta 1^2 \beta 2^2 + 4(8-19 z+z^2) \beta 1 \beta 2^3 + (16-32 z+5 z^2) \beta 2^4) + \\
& \alpha 2(2(8-9 z+z^2) \beta 1^5 + (58-87 z+5 z^2) \beta 1^4 \beta 2 + (34-75 z-7 z^2) \beta 1^3 \beta 2^2 + \\
& (-48+89 z-7 z^2) \beta 1^2 \beta 2^3 + (-24+77 z+5 z^2) \beta 1 \beta 2^4 + 2 z(7+z) \beta 2^5) - \\
& 2((-1+z)^2 \beta 1^6 + 2(2-3 z+z^2) \beta 1^5 \beta 2 - (-4+3 z+z^2) \beta 1^4 \beta 2^2 - \\
& 4(-1+z) z \beta 1^3 \beta 2^3 - (-5+z) z \beta 1^2 \beta 2^4 + 2 z(1+z) \beta 1 \beta 2^5 + z^2 \beta 2^6)) + \\
& u(2 \alpha 2^4 (\beta 1+z \beta 1+2 \beta 2-z \beta 2)^2 - 11 \alpha 2^3 ((-1+z) \beta 1-z \beta 2) \\
& (\beta 1+z \beta 1+2 \beta 2-z \beta 2)^2 + \alpha 2^2 ((31-19 z-35 z^2+15 z^3) \beta 1^4 - \\
& 2(-61+61 z-7 z^2+15 z^3) \beta 1^3 \beta 2 + 3(38-29 z+29 z^2) \beta 1^2 \beta 2^2 + \\
& 2(-8+92 z-38 z^2+15 z^3) \beta 1 \beta 2^3 + (-8+44 z+10 z^2-15 z^3) \beta 2^4) - \\
& \alpha 2(2(5-6 z+z^2) \beta 1^5 + (37-54 z+5 z^2) \beta 1^4 \beta 2 + (25-42 z-7 z^2) \beta 1^3 \beta 2^2 + \\
& (-24+56 z-7 z^2) \beta 1^2 \beta 2^3 + (-12+44 z+5 z^2) \beta 1 \beta 2^4 + 2 z(4+z) \beta 2^5) + \\
& 2((-1+z)^2 \beta 1^6 + 2(2-3 z+z^2) \beta 1^5 \beta 2 - (-4+3 z+z^2) \beta 1^4 \beta 2^2 - \\
& 4(-1+z) z \beta 1^3 \beta 2^3 - (-5+z) z \beta 1^2 \beta 2^4 + 2 z(1+z) \beta 1 \beta 2^5 + z^2 \beta 2^6)) + \\
& 4(\beta 1^3 (4 \alpha 2 + \beta 1) (\beta 1+2 \beta 2)^2 + z^3 \alpha 2^2 (\beta 1-\beta 2)^3 (\alpha 2-2(\beta 1+\beta 2)) - \\
& z(\beta 1^2 + \beta 1 \beta 2 - 2 \beta 2^2) (\alpha 2^3 (\beta 1-\beta 2) + 2 \alpha 2^2 \beta 1 (\beta 1-\beta 2) + \beta 1 \\
& (2 \beta 1^3 + 4 \beta 1^2 \beta 2 + 3 \beta 1 \beta 2^2 + \beta 2^3) + \alpha 2(6 \beta 1^3 + 15 \beta 1^2 \beta 2 + 6 \beta 1 \beta 2^2 + \beta 2^3)) + \\
& z^2 (\beta 1-\beta 2)^2 (3 \alpha 2^3 \beta 2 + (\beta 1+\beta 2)^4 + \alpha 2^2 (4 \beta 1^2 + 4 \beta 1 \beta 2 - 2 \beta 2^2) + \\
& \alpha 2(2 \beta 1^3 + 9 \beta 1^2 \beta 2 + 9 \beta 1 \beta 2^2 + 2 \beta 2^3)))
\end{aligned}$$