Cubic quaternary discriminant

$$\left\{\begin{array}{c}
0 \\
-8\left(2699\right) \\
-2\left(1499\right)-8\left(3600\right) \\
-4\left(3676\right)-2\left(5468\right)-8\left(3600\right) \\
-4\left(1499\right)-4\left(4600\right) \\
4\left(1349\right)-2\left(5400\right)-8\left(1600\right) \\
-2\left(1349\right)+8\left(3500\right)-4\left(4600\right) \\
-2\left(1349\right)-8\left(3500\right) \\
2\left(1349\right)-4\left(5676\right) \\
-4\left(3676\right)-4\left(5676\right) \\
-2\left(1349\right)-2\left(3676\right) \\
4\left(1349\right)+2\left(5400\right) \\
-2\left(1349\right)+8\left(3500\right)-4\left(5676\right) \\
-4\left(3676\right)-2\left(5468\right)-8\left(3600\right) \\
0 \\
-8\left(2699\right) \\
0 \\
2\left(3676\right)-2\left(5468\right)+8\left(3600\right) \\
-8\left(3600\right)-4\left(3676\right) \\
-2\left(5468\right)+4\left(3676\right) \\
2\left(3676\right)-4\left(5676\right) \\
-4\left(3676\right)-2\left(5468\right) \\
-2\left(5468\right)-4\left(3676\right) \\
2\left(3676\right)-2\left(5468\right)+8\left(3600\right) \\
-8\left(3600\right)-4\left(3676\right) \\
-4\left(3676\right)-2\left(5468\right) \\
-2\left(5468\right)+4\left(3676\right) \\
0 \\
-4\left(1499\right)-4\left(4600\right) \\
4\left(1349\right)-2\left(5400\right)-8\left(1600\right) \\
-2\left(1349\right)+8\left(3500\right)-4\left(4600\right) \\
-2\left(1349\right)-8\left(3500\right) \\
2\left(1349\right)-4\left(5676\right) \\
-4\left(3676\right)-4\left(5676\right) \\
-2\left(1349\right)-2\left(3676\right) \\
4\left(1349\right)+2\left(5400\right) \\
-2\left(1349\right)+8\left(3500\right)-4\left(5676\right) \\
-4\left(3676\right)-2\left(5468\right)-8\left(3600\right) \\
0 \\
-8\left(2699