

If $x_i \neq x_j$ for $i \neq j$ and $\prod_{i=1}^4 x_i \neq 0$, solve

$$x_5^2 + x_5(T_1 - \sum_{i=1}^4 x_i) - \frac{T_2}{\prod_{i=1}^4 x_i} = 0$$

with

$$T_1 = \frac{1 - 2j_2j_3}{j_3^2}$$

$$T_2 = \frac{j_0 - e}{j_3^2}.$$

Otherwise, if $x_i \neq x_j$ but $x_k = 0$ for some k then solve

$$x_5^2 + x_5(T_1 - \sum_{\substack{i=1 \\ i \neq k}}^4 x_i) - \frac{T_3}{\prod_{\substack{i=1 \\ i \neq k}}^4 x_i} = 0$$

with

$$T_3 = \frac{d - 2j_0j_1}{j_3^2}.$$