

$$E := 1 \quad I := 1$$

$$\theta := \begin{bmatrix} \theta_b \\ \theta_c \\ \theta_d \end{bmatrix} \quad M := \begin{bmatrix} \frac{4 \cdot E \cdot I}{6} \cdot \theta_b + 75 + \frac{4 \cdot E \cdot I}{7} \cdot \theta_b + \frac{2 \cdot E \cdot I}{7} \cdot \theta_c \\ \frac{4 \cdot E \cdot I}{7} \cdot \theta_c + \frac{2 \cdot E \cdot I}{7} \cdot \theta_b + \frac{4 \cdot E \cdot I}{5} \cdot \theta_c + \frac{2 \cdot E \cdot I}{5} \cdot \theta_d - 72 \\ \frac{4 \cdot E \cdot I}{5} \cdot \theta_d + \frac{2 \cdot E \cdot I}{5} \cdot \theta_c + 48 \end{bmatrix}$$

$$b := (\text{roots}(M, \theta)) = \begin{bmatrix} -84.2296 \\ 102.495 \\ -111.2475 \end{bmatrix}$$

$$p = \begin{bmatrix} \theta_b \\ \theta_c \\ \theta_d \\ \theta_e \\ \theta_f \\ \theta_g \\ \theta_h \\ \theta_i \\ \theta_j \\ \theta_k \end{bmatrix} \quad + \quad MS = \begin{bmatrix} \frac{247 + 3840 \cdot (\theta_c + 2 \cdot \theta_b + 4 \cdot \theta_b) - 316}{3840} \\ \frac{79 + 480 \cdot (\theta_d + 2 \cdot \theta_c + 2 \cdot (\theta_b + 2 \cdot \theta_c)) - 272}{960} \\ \frac{17 + 30 \cdot (\theta_c + 2 \cdot \theta_d + \theta_e + 2 \cdot \theta_d) - 9}{60} \\ \frac{3 + 5 \cdot (\theta_f + 2 \cdot \theta_e + 2 \cdot (\theta_d + 2 \cdot \theta_e)) - 12}{20} \\ \frac{\theta_e + 2 \cdot \theta_f + \theta_g + 2 \cdot \theta_f}{4} \\ \frac{2 \cdot (6 + 5 \cdot (\theta_h + 2 \cdot \theta_g)) + 5 \cdot (\theta_f + 2 \cdot \theta_g) - 3}{20} \\ \frac{-17 + 3 \cdot (3 + 10 \cdot (\theta_g + 2 \cdot \theta_h + \theta_i + 2 \cdot \theta_h))}{60} \\ \frac{-79 + 16 \cdot (17 + 30 \cdot (\theta_h + 2 \cdot \theta_i + 2 \cdot (\theta_j + 2 \cdot \theta_i)))}{960} \\ \frac{-247 + 4 \cdot (79 + 960 \cdot (\theta_i + 2 \cdot \theta_j + 2 \cdot (\theta_k + 2 \cdot \theta_j)))}{3840} \\ \frac{7680 \cdot (\theta_j + 2 \cdot \theta_k) + 247}{3840} \end{bmatrix}$$

$$\beta := \text{roots}(MS, p)$$

Syntax is incorrect.