

$$\begin{aligned}
 T_1 + T_2 - 2T_3 + T_4 - 3T_5 - T_6 &= 4 & \text{---} \times \\
 2T_1 - T_2 + T_3 + 2T_4 + T_5 - 3T_6 &= 20 & \text{---} \times \\
 T_1 + 3T_2 - 3T_3 - T_4 + 2T_5 + T_6 &= -15 & \text{---} \times \\
 5T_1 + 2T_2 - T_3 - T_4 + 2T_5 + T_6 &= -3 & \text{---} \times \\
 -3T_1 - T_2 + 2T_3 + 3T_4 + T_5 + 3T_6 &= 16 & \text{---} \times \\
 4T_1 + 3T_2 + T_3 - 6T_4 - 3T_5 - 2T_6 &= -27 & \text{---} \times
 \end{aligned}$$

* Start by Pivoting

$$\begin{aligned}
 5T_1 + 2T_2 - T_3 - T_4 + 2T_5 + T_6 &= -3 & \text{---} \textcircled{1} \\
 4T_1 + 3T_2 + T_3 - 6T_4 - 3T_5 - 2T_6 &= -27 & \text{---} \textcircled{2} \\
 2T_1 - T_2 + T_3 + 2T_4 + T_5 - 3T_6 &= 20 & \text{---} \textcircled{3} \\
 T_1 + 3T_2 - 3T_3 - T_4 + 2T_5 + T_6 &= -15 & \text{---} \textcircled{4} \\
 T_1 + T_2 - 2T_3 + T_4 - 3T_5 - T_6 &= 4 & \text{---} \textcircled{5} \\
 -3T_1 - T_2 + 2T_3 + 3T_4 + T_5 + 3T_6 &= 16 & \text{---} \textcircled{6}
 \end{aligned}$$

$$\begin{aligned}
 \frac{4}{5} \times \textcircled{1} &\rightarrow 4T_1 + 1.6T_2 - 0.4T_3 - 0.8T_4 + 1.6T_5 + 0.8T_6 & \text{---} \textcircled{N_2} \\
 \frac{2}{5} \times \textcircled{1} &\rightarrow 2T_1 + 0.8T_2 - 0.4T_3 - 0.4T_4 + 0.8T_5 + 0.4T_6 & \text{---} \textcircled{N_3} \\
 \frac{1}{5} \times \textcircled{1} &\rightarrow T_1 + 0.4T_2 - 0.2T_3 - 0.2T_4 + 0.4T_5 + 0.2T_6 & \text{---} \textcircled{N_4} \\
 \frac{1}{5} \times \textcircled{1} &\rightarrow T_1 + 0.4T_2 - 0.2T_3 - 0.2T_4 + 0.4T_5 + 0.2T_6 & \text{---} \textcircled{N_5} \\
 -\frac{3}{5} \times \textcircled{1} &\rightarrow -3T_1 - 1.8T_2 + 0.6T_3 + 0.6T_4 - 1.8T_5 - 0.6T_6 & \text{---} \textcircled{N_6}
 \end{aligned}$$

$$\begin{aligned}
 5T_2 + 2T_2 - T_3 - T_4 + 2T_5 + T_6 &= -3 & \text{---} \textcircled{1} \\
 0 + 1.6T_2 + 1.8T_3 - 5.2T_4 - 4.6T_5 - 2.8T_6 &= -27 & \text{---} \textcircled{2} - \textcircled{N_2} \\
 0 + 1.8T_2 + 4T_3 + 2.4T_4 - 0.2T_5 - 3.4T_6 &= 20 & \text{---} \textcircled{3} - \textcircled{N_3} \\
 0 + 2.6T_2 - 2.8T_3 - 0.8T_4 + 1.6T_5 + 0.8T_6 &= -15 & \text{---} \textcircled{4} - \textcircled{N_4} \\
 0 + 0.6T_2 - 1.8T_3 + 1.2T_4 - 3.4T_5 - 1.2T_6 &= 4 & \text{---} \textcircled{5} - \textcircled{N_5} \\
 0 + 0.2T_2 - 1.4T_3 + 2.4T_4 + 2.2T_5 + 3.6T_6 &= 16 & \text{---} \textcircled{6} - \textcircled{N_6}
 \end{aligned}$$

*Pivoting again

$$\begin{array}{r}
 5\bar{T}_1 + 2\bar{T}_2 - \bar{T}_3 - \bar{T}_4 + 2\bar{T}_5 + \bar{T}_6 = -3 \quad \text{--- (1)} \\
 0 + 2.6\bar{T}_2 - 2.8\bar{T}_3 - 0.8\bar{T}_4 + 1.6\bar{T}_5 + 0.8\bar{T}_6 = -15 \quad \text{--- (2)} \\
 0 + 1.4\bar{T}_2 + 1.8\bar{T}_3 - 5.2\bar{T}_4 - 4.6\bar{T}_5 - 2.8\bar{T}_6 = -27 \quad \text{--- (3)} \\
 0 + 0.6\bar{T}_2 - 1.8\bar{T}_3 + 1.2\bar{T}_4 - 3.4\bar{T}_5 - 1.2\bar{T}_6 = 4 \quad \text{--- (4)} \\
 0 + 0.2\bar{T}_2 - 1.4\bar{T}_3 + 2.4\bar{T}_4 + 2.2\bar{T}_5 + 3.6\bar{T}_6 = 16 \quad \text{--- (5)} \\
 0 - 1.8\bar{T}_2 + 1.4\bar{T}_3 + 2.4\bar{T}_4 - 0.2\bar{T}_5 - 3.4\bar{T}_6 = 20 \quad \text{--- (6)}
 \end{array}$$

$$\begin{array}{l}
 \frac{1.4}{2.6} \times (2) \rightarrow 0 + 1.4\bar{T}_2 - 1.507692309\bar{T}_3 - 0.4307692308\bar{T}_4 + 0.8615384615\bar{T}_5 + 0.430769\bar{T}_6 \\
 \frac{0.6}{2.6} \times (2) \rightarrow 0 + 0.6\bar{T}_2 - 0.6461538462\bar{T}_3 - 0.1646153846\bar{T}_4 + 0.3692307692\bar{T}_5 + 0.1846153846\bar{T}_6 \\
 \frac{0.2}{2.6} \times (2) \rightarrow 0 + 0.2\bar{T}_2 - 0.2153846154\bar{T}_3 - 0.0615384615\bar{T}_4 + 0.1230769231\bar{T}_5 + 0.0615384615\bar{T}_6 \\
 \frac{-1.8}{2.6} \times (2) \rightarrow 0 - 1.8\bar{T}_2 + 1.938461538\bar{T}_3 + 0.5538461538\bar{T}_4 - 1.107692308\bar{T}_5 - 0.5538461538\bar{T}_6
 \end{array}$$

$$\begin{array}{r}
 5\bar{T}_1 + 2\bar{T}_2 - \bar{T}_3 - \bar{T}_4 + 2\bar{T}_5 + \bar{T}_6 = -3 \quad \text{--- (1)} \\
 0 + 2.6\bar{T}_2 - 2.8\bar{T}_3 - 0.8\bar{T}_4 + 1.6\bar{T}_5 + 0.8\bar{T}_6 = -15 \quad \text{--- (2)} \\
 0 + 0 + 3.31\bar{T}_3 - 4.769\bar{T}_4 - 5.46154\bar{T}_5 - 3.230769\bar{T}_6 = -27 \quad \text{--- (3)} \\
 0 + 0 + 1.153462\bar{T}_3 + 1.384615\bar{T}_4 - 3.769230769\bar{T}_5 - 1.384615385\bar{T}_6 = 4 \quad \text{--- (4)} \\
 0 + 0 + 1.1546\bar{T}_3 + 2.462\bar{T}_4 + 2.0769\bar{T}_5 + 3.538461538\bar{T}_6 = 16 \quad \text{--- (5)} \\
 0 + 0 + 1.53846\bar{T}_3 + 1.8462\bar{T}_4 + 0.70762308\bar{T}_5 - 2.946154\bar{T}_6 = 20 \quad \text{--- (6)}
 \end{array}$$

$$+3.31 \bar{T}_3 - 4.769 \bar{T}_4 - 5.46154 \bar{T}_5 - 3.230769 \bar{T}_6 = -27$$

* Pivot

$$-0.53846 \bar{T}_3 + 1.07462 \bar{T}_4 + 0.70762 \bar{T}_5 - 2.84615 = 20 \quad (4)$$

$$-1.1846 \bar{T}_3 + 2.462 \bar{T}_4 + 2.0769 \bar{T}_5 + 3.53846 = 16 \quad (5)$$

$$-1.153462 \bar{T}_3 + 1.384615 \bar{T}_4 - 3.769230769 \bar{T}_5 - 1.384615385 \bar{T}_6 = 4 \quad (6)$$

$$-0.54 / 3.31 \times (3) = -0.53846 \bar{T}_3 + 0.77581 \bar{T}_4 + 0.88847 \bar{T}_5 + 0.52557096 \bar{T}_6$$

$$-1.185 / 3.31 \times (3) = -1.1846 \bar{T}_3 + 1.7067545 \bar{T}_4 + 1.954604315 \bar{T}_5 + 1.1562444 \bar{T}_6$$

$$-1.1535 \times (3) = -1.1535 \bar{T}_3 + 1.661946 \bar{T}_4 + 1.90328894 \bar{T}_5 + 1.125888834 \bar{T}_6$$

$$5 \bar{T}_1 + 2 \bar{T}_2 - \bar{T}_3 - \bar{T}_4 + 2 \bar{T}_5 + \bar{T}_6 = -3$$

$$0 + 2.6 \bar{T}_2 - 2.8 \bar{T}_3 - 0.8 \bar{T}_4 + 1.6 \bar{T}_5 + 0.8 \bar{T}_6 = -15$$

$$0 + 0 + 3.31 \bar{T}_3 - 4.769 \bar{T}_4 - 5.46154 \bar{T}_5 - 3.230769 \bar{T}_6 = -27$$

$$0 + 0 + 0 + 1.07039 \bar{T}_4 + 0.01715 \bar{T}_5 - 3.37172096 = 20 \quad (1)$$

$$0 + 0 + 0 + 0 + 0.7352455 \bar{T}_4 + 0.122295685 \bar{T}_5 + 2.3822156 = 16$$

$$0 + 0 + 0 + 0.272331 \bar{T}_4 + 5.672519709 \bar{T}_5 - 2.510504219 = 4$$

$$0.755 / 1.07039 \times (1) \quad 0.755 \bar{T}_4 + 0.0135074599 \bar{T}_5 - 2.378244682 \bar{T}_6 = 20$$

$$0.277531 / 1.07039 \times (1) \quad 0.277531 \bar{T}_4 + 4.76163889 \bar{T}_5 - 0.874220675 \bar{T}_6 = 3590.6764 \bar{T}_6 \times 10^{-3}$$

$$5 \bar{T}_1 + 2 \bar{T}_2 - \bar{T}_3 - \bar{T}_4 + 2 \bar{T}_5 + \bar{T}_6 = -3$$

$$0 + 2.6 \bar{T}_2 - 2.6 \bar{T}_3 - 0.8 \bar{T}_4 + 1.6 \bar{T}_5 + 0.8 \bar{T}_6 = -15$$

$$0 + 0 + 3.31 \bar{T}_3 - 4.769 \bar{T}_4 - 5.46154 \bar{T}_5 - 3.230769 \bar{T}_6 = -27$$

$$0 + 0 + 0 + 1.07039 \bar{T}_4 + 0.01715 \bar{T}_5 - 3.37172096 \bar{T}_6 = 20$$

$$0 + 0 + 0 + 0 + 0.1087882251 \bar{T}_5 + 4.760460232 \bar{T}_6 = 16$$

$$0 + 0 + 0 + 0 + 5.677481348 \bar{T}_5 - 1.636913533 \bar{T}_6 = 4$$

$$0 + 0 + 0 + 0 + 0 + 246.8038806 =$$

$$\frac{-5.677481348}{0.1087882251} \times (5) = 0 + 0 + 0 + 0 + 0 + 0 - 248.4407741 \bar{T}_6$$

$$5T_1 + 2T_2 - T_3 - T_4 + 2T_5 + T_6 = -3$$

$$0 + 2.6T_2 - 2.8T_3 - 0.8T_4 + 1.6T_5 + 0.8T_6 = -15$$

$$0 + 0 + 3.31T_3 - 4.76T_4 - 5.46154T_5 - 3.230769T_6 = -27$$

$$0 + 0 + 0 + 1.07039T_4 + 0.01915T_5 - 3.37172076T_6 = 20$$

$$0 + 0 + 0 + 0 + 0.10878822515T_5 + 4.760460282T_6 = 16$$

$$0 + 0 + 0 + 0 + 0 + 246.8038806T_6 = 4$$

4

$$T_6 = \frac{4}{246.8} = 0.0162601626$$

$$T_5 = \frac{15.92257414}{0.10878822515} = 146.3632127$$

~~$$T_5 = \frac{20}{0.10878822515}$$~~

$$T_4 = \frac{20 - 2.8 + 0.0548}{1.07039} = 16.11746112$$

$$T_3 = \frac{-27 + 76.86 + 779.37 + 5.21 \times 10^{-3}}{3.31} = 250.5254948$$

$$T_2 = \frac{-15 + 701.47 + 12.81 - 234.18 - 0.013008}{2.6} = 178.7120023$$

$$T_1 = \frac{-3 - 357.82 + 250.53 + 16.117 - 212.724 - 0.016260162}{5} = -77.38431257$$