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\[ \Theta_R = 0 = -144 + 320 + 576 - M_8 \]
\[ M_8 = 752 \quad M = 94 \text{k-ft} \]
\[ R_R = -115 + 6 + 12 + 3.917 = 20.42 \text{k} \]
\[ R_L = (1.5 + 6) + 3 + 12 - 3.917 = 18.58 \text{k} \]

**R TOTAL** \( \frac{39.00}{7} \) k

**Applied Load**
\[ -6 - 9 - 24 = -39 < \text{Balanced} \]