ARCH 324 - Structures 2, Winter 2009

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\[ \Theta_R = 0 = -144 + 320 + 576 - M_8 \]

\[ M_8 = 752, \quad M = 94 \text{ kN} \cdot \text{m} \]

\[ R_R = -11.5 + 6 + 12 + 3.917 = 20.42 \text{ kN} \]

\[ R_L = (11.5 + 6) + 3 + 12 - 3.917 = 18.58 \text{ kN} \]

**Applied Load**

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