ARCH 324 - Structures 2, Winter 2009

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

\[ M_8 = 752 \quad \text{M} = 94 \text{ k}\cdot\text{l} \]

\[ R_R = -115 + 6 + 12 + 3.917 = 20.42 \text{ k} \]

\[ R_L = (115 + 6) + 3 + 12 - 3.917 = 18.58 \text{ k} \]

\[ R_{\text{TOTAL}} = 39.00 \text{ k} \]

**APPLIED LOAD**

\[ -6 - 9 - 24 = -39 < \text{BLENCHED} \]
37.28 = x\cdot 12.42 + \frac{x^2}{2}

x^2 + 24.84x - 74.56 = 0

x = 2.707