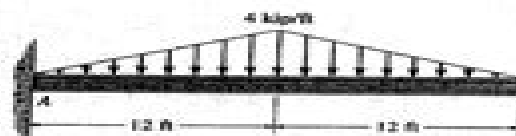


7-59. Draw the shear and moment diagrams for the beam.



Support Reactions: From FBD (a),

$$\begin{aligned} \sum M_A = 0: \quad M_A - 48.0(12) = 0 \quad M_A = 576 \text{ kip}\cdot\text{ft} \\ + \sum F_y = 0: \quad A_y - 48.0 = 0 \quad A_y = 48.0 \text{ kip} \end{aligned}$$

Shear and Moment Functions: For $0 \leq x < 12 \text{ ft}$ [FBD (b)],

$$\begin{aligned} + \sum F_y = 0: \quad 48.0 - \frac{x^2}{6} - V = 0 \\ V = \left\{ 48.0 - \frac{x^2}{6} \right\} \text{ kip} \end{aligned}$$

Ans

$$\begin{aligned} \sum M = 0: \quad M + \frac{x^3}{6} \left(\frac{1}{3} \right) + 576 - 48.0x = 0 \\ M = \left\{ 48.0x - \frac{x^3}{18} - 576 \right\} \text{ kip}\cdot\text{ft} \end{aligned}$$

Ans

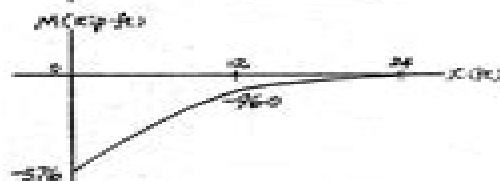
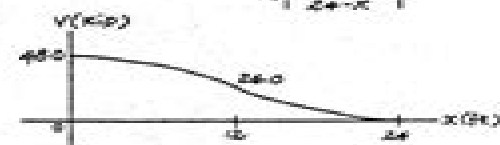
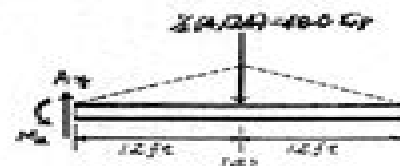
For $12 \text{ ft} < x \leq 24 \text{ ft}$ [FBD (c)],

$$\begin{aligned} + \sum F_y = 0: \quad V - \frac{1}{2} \left[\frac{1}{3} (24-x) \right] (24-x) = 0 \\ V = \left\{ \frac{1}{6} (24-x)^2 \right\} \text{ kip} \end{aligned}$$

Ans

$$\begin{aligned} \sum M = 0: \quad -\frac{1}{2} \left[\frac{1}{3} (24-x) \right] (24-x) \left(\frac{24-x}{3} \right) - M = 0 \\ M = \left\{ -\frac{1}{18} (24-x)^3 \right\} \text{ kip}\cdot\text{ft} \end{aligned}$$

Ans



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**Braja M. Das, Aslam Kassimali, Sedat
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