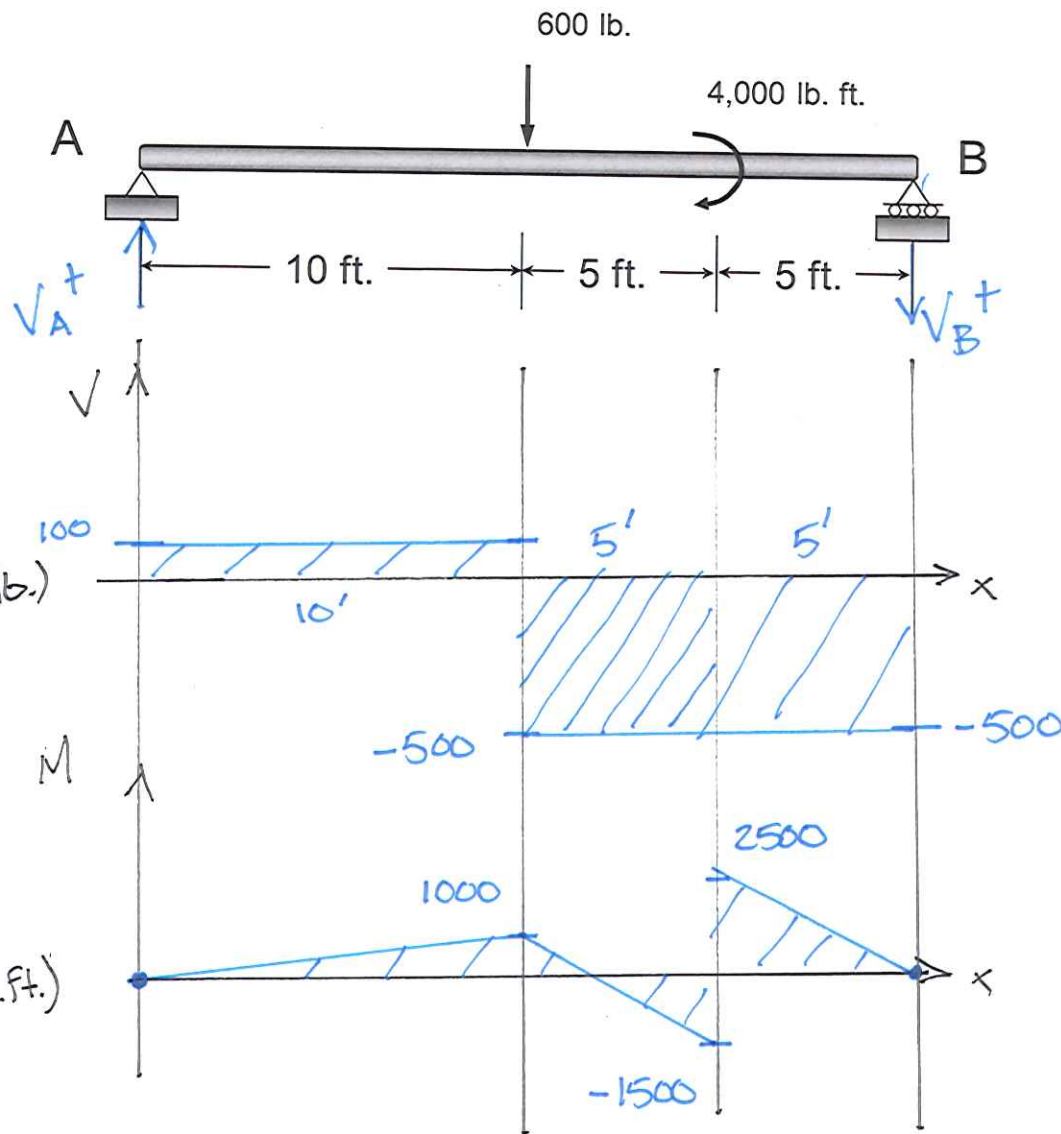


Example 4c-4 – Construct the shear force and bending moment diagrams



$$\sum M_A = 0 = -600 \text{ lb.} (10') - 4,000 \text{ lb. ft.} - V_B (20')$$

$$V_B = -500 \text{ lb.}$$

$$\sum F_y = 0 = V_A - V_B - 600 \text{ lb.}$$

$$V_A = 100 \text{ lb.}$$

$$\Delta V = \int w dx \quad \frac{dV}{dx} = w$$

$$\Delta V = P$$

$$\Delta M = \int V dx \quad \frac{dM}{dx} = V$$

-5500
8000