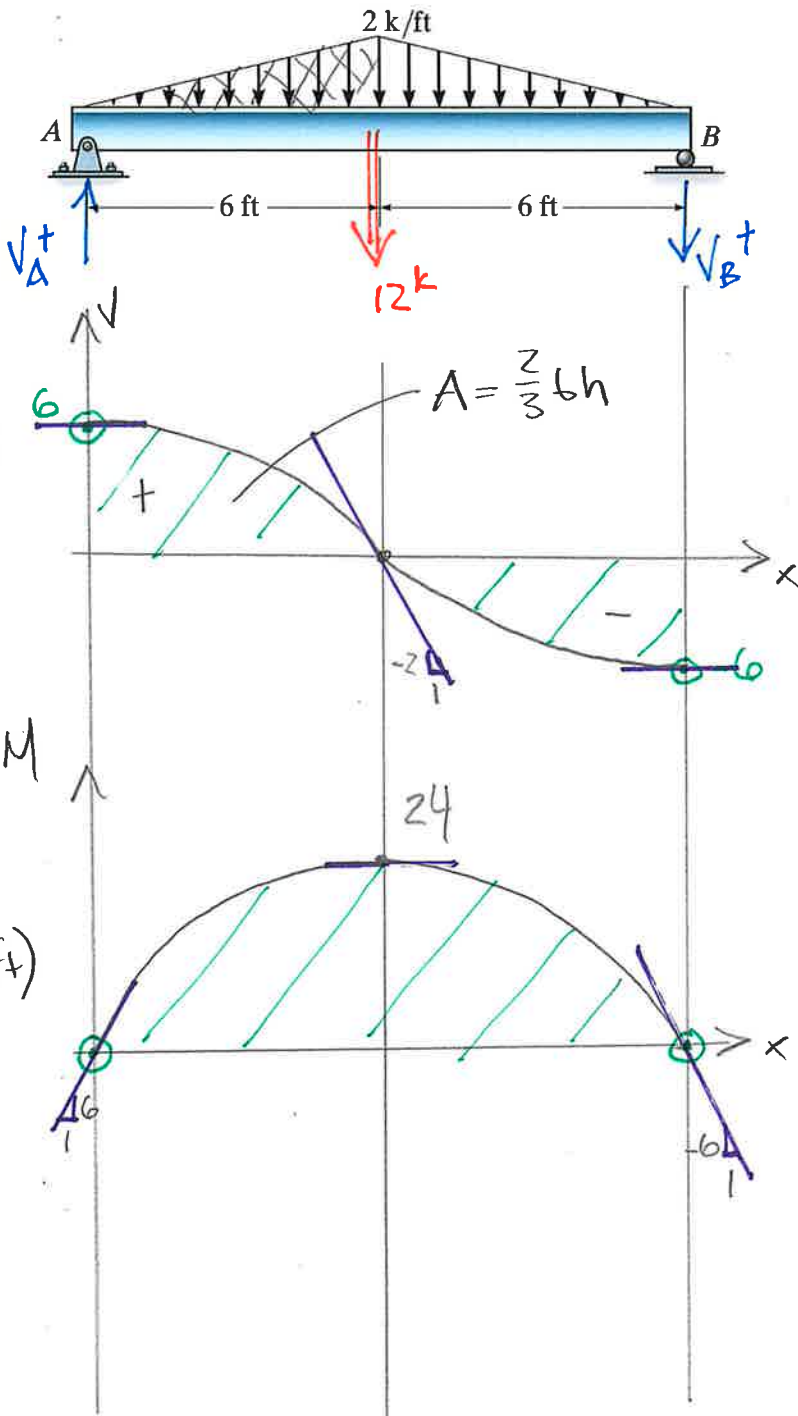


Group Problem 10 – Construct the shear force and bending moment diagrams



$$\begin{aligned} \sum M_B = 0 &= 12k(6') - V_A(12') & \underline{V_A = 6k} \\ \sum F_y = 0 &= V_A - V_B - 12k & \underline{V_B = -6k} \end{aligned}$$

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

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