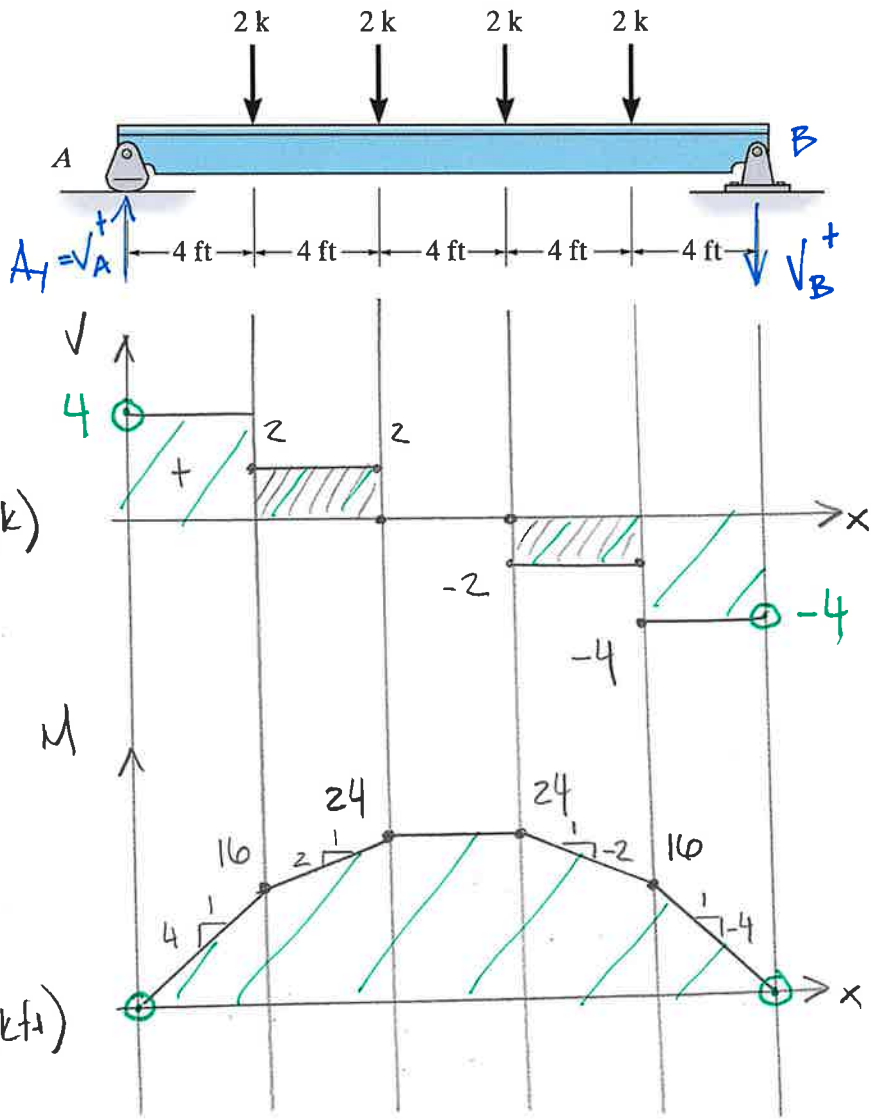


Example 4c-1 – Construct the shear force and bending moment diagrams.



$$\sum M_B = 0 = 2^k(4' + 8' + 12' - 16') - V_A(20')$$

$$V_A = 4^k$$

$$+\uparrow \sum F_y = 0 = V_A - V_B - 2^k - 2^k - 2^k - 2^k$$

$$V_B = -4^k$$

$$\Delta V = \int w dx$$

$$\frac{dV}{dx} = w$$

$$\Delta M = \int V dx$$

$$\frac{dM}{dx} = V$$