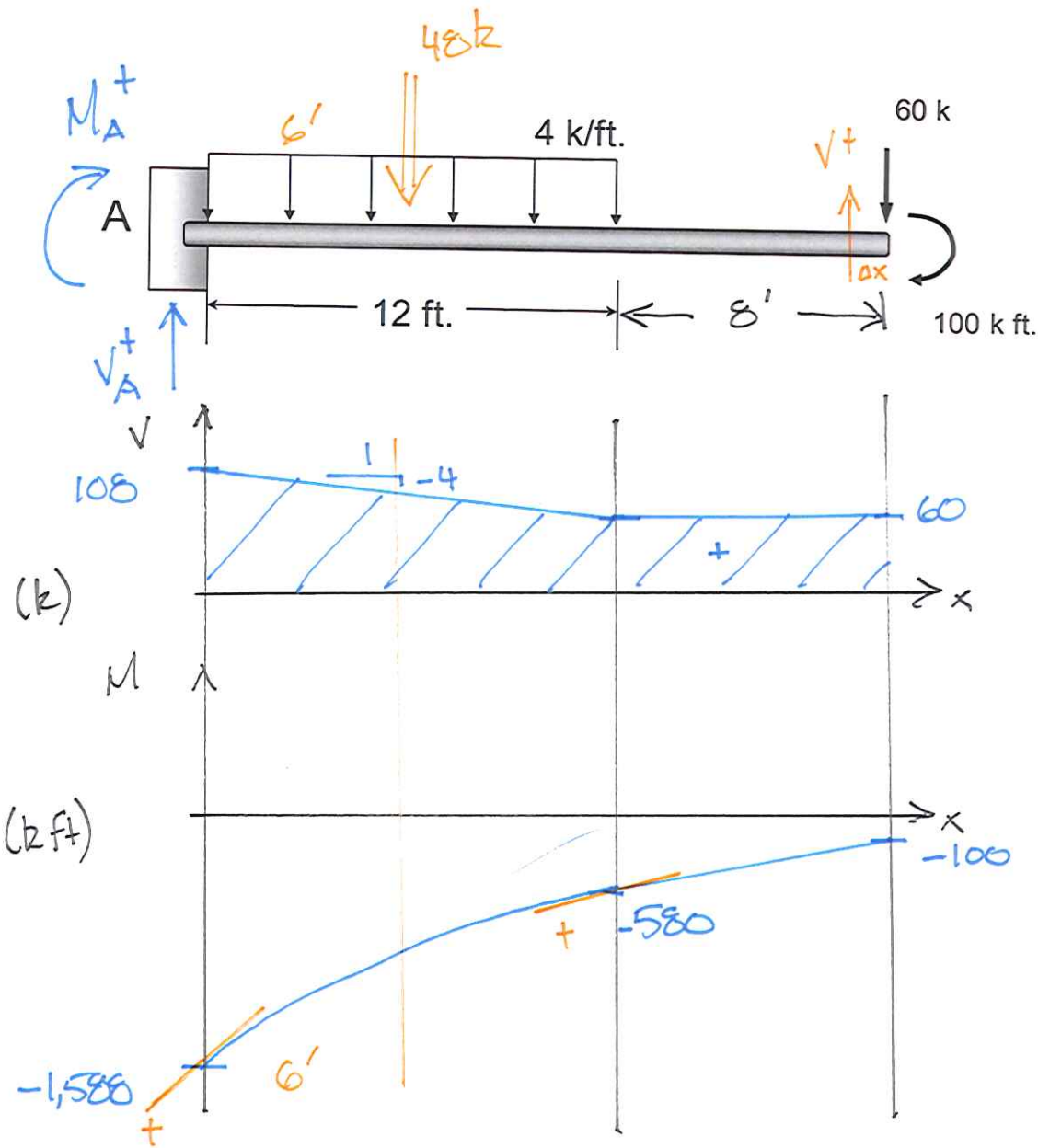


Example 4c-6 – Construct the shear force and bending moment diagrams



$$\sum M_A = 0 = -M_A - 48^k(6') - 60^k(20') - 100^k\text{ft}$$

$$M_A = -1,588^k\text{ft}$$

$$\sum F_y = 0 = V_A - 48^k - 60^k$$

$$V_A = 108^k$$

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

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