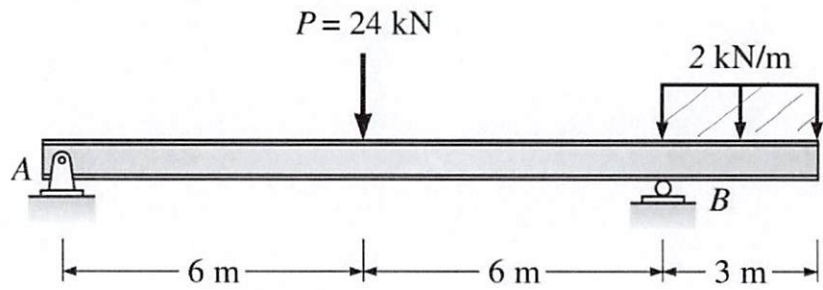
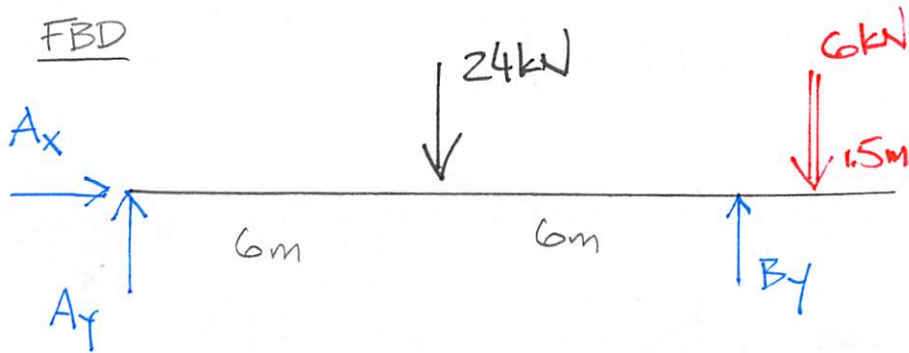


Example 2a-1: Find the reactions



FBD



$$+\rightarrow \sum F_x = 0 = A_x = 0$$

$$\begin{aligned} \curvearrowleft \sum M_A = 0 &= -24 \text{ kN}(6 \text{ m}) - 6 \text{ kN}(13.5 \text{ m}) \\ &+ B_y(12 \text{ m}) \end{aligned}$$

$$B_y = 18.75 \text{ kN}$$

$$+\uparrow \sum F_y = 0 = B_y - 24 \text{ kN} - 6 \text{ kN} + A_y$$

$$A_y = 11.25 \text{ kN}$$