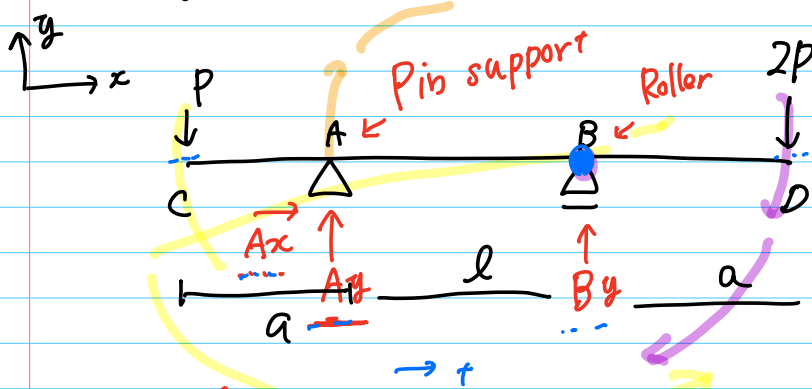


Mini quiz 1 Solutions



1: Find A_x

$$\sum \rightarrow = 0 \quad A_x = 0$$

2: Find A_y

$$\uparrow \sum = 0 \quad -P + A_y + B_y - 2P = 0$$

$$\boxed{A_y + B_y = 3P}$$

$$\curvearrow \sum \quad P \cdot (a+l) - A_y \cdot l - 2P \cdot a = 0$$

$$-A_y \cdot l = 2Pa - Pa - Pl$$

$$-A_y = \frac{Pa - Pl}{l} = \boxed{\frac{-Pa + Pl}{l}}$$

$$A_y = \underline{\underline{\frac{-P(a-l)}{l} = \frac{l-a}{l} P}}$$

$$\uparrow B_y \quad A_y + B_y = 3P$$

$$B_y = 3P - \frac{Pl - Pa}{l}$$

$$B_y = \frac{3Pl - Pl + Pa}{l}$$

$$= \frac{2Pl + Pa}{l} = \boxed{\frac{2l + a}{l} p}$$