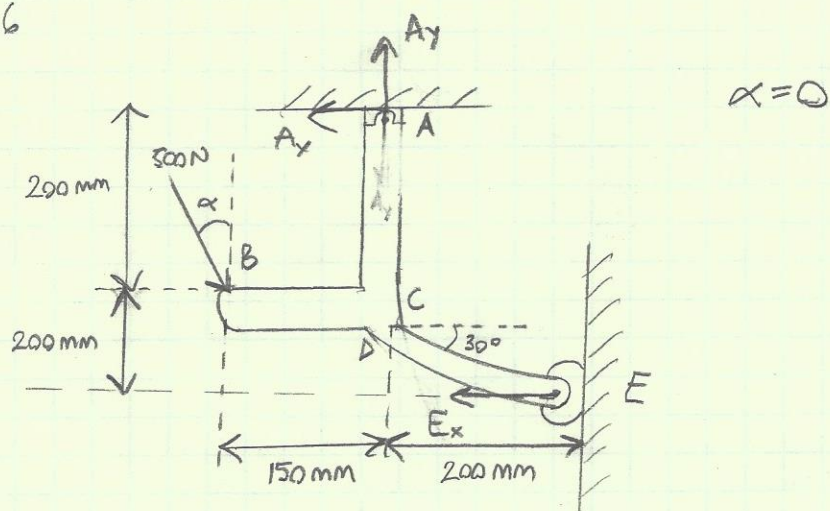


4.36



$$\sum M_A = 0 \text{ N}\cdot\text{m}$$

$$\sum M_A = -500 \text{ N}(150 \times 10^{-3} \text{ m}) - E_x(400 \times 10^{-3} \text{ m}) = 0 \text{ N}\cdot\text{m}$$

$$E_x = 187.5 \text{ N}$$

$$\sum F_x = 0 \text{ N} = 187.5 + A_x = 0$$

$$A_x = -187.5 \text{ N}$$

$$\sum F_y = 0 = 500 - A_y = 0$$

$$A_y = 500 \text{ N}$$

$$A = \sqrt{(500 \text{ N})^2 + (187.5 \text{ N})^2} = 534 \text{ N}$$