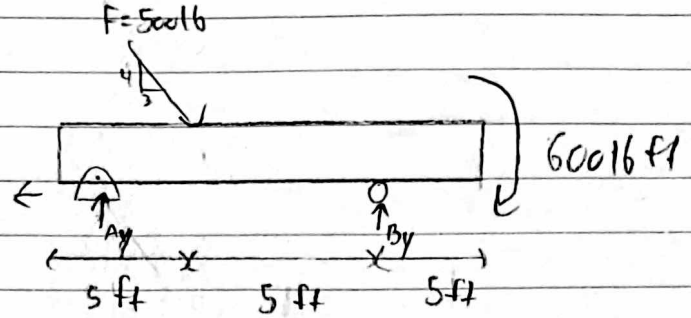
Solution : 21-S-5.4-Mar-01



$$\Sigma F_x = \frac{3}{5}(500\text{lb}) - A_y \rightarrow \boxed{A_x = 300\text{ lb}}$$

$$\Sigma F_y = A_y + B_y - \frac{4}{5}F$$

$$\circlearrowleft \Sigma M_A = B_y(10\text{ ft}) - 600\text{ lb ft} - \frac{4}{5}(500\text{ lb})(5\text{ ft})$$

$$B_y = \frac{(600\text{ lb ft}) + \frac{4}{5}(500\text{ lb})(5\text{ ft})}{10\text{ ft}}$$

$$\boxed{B_y = 260\text{ lb}}$$

$$\Sigma F_y = A_y + B_y - \frac{4}{5}F$$

$$A_y = \frac{4}{5}F - B_y = \frac{4}{5}(500) - (260)$$

$$\boxed{A_y = 140\text{ lb}}$$

FIVE STAR.
★★★★★