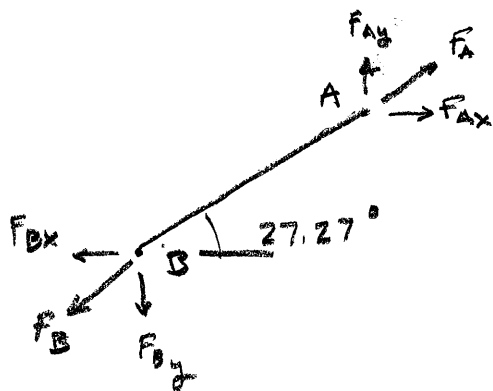


LINK A-B



$$F_{Ay} = \frac{100[16] + 10[16]}{2} = 55[16]$$

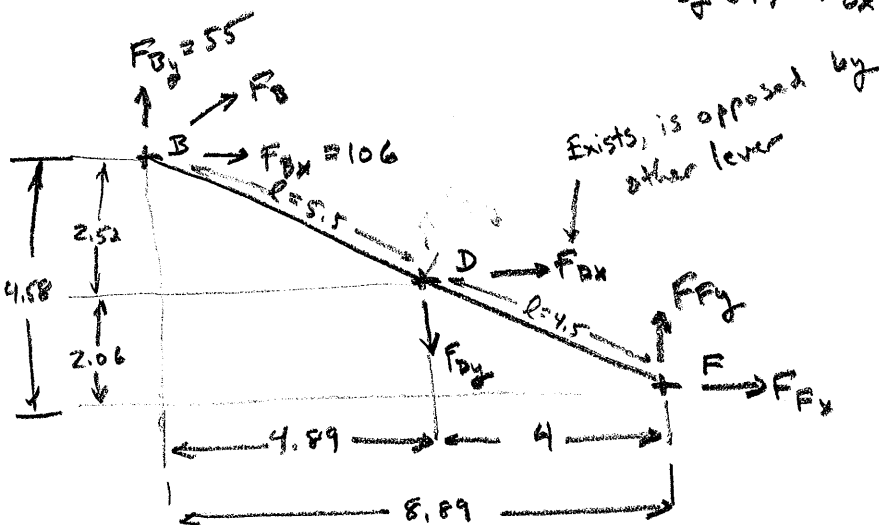
$$F_A = 55 / \sin 27.27 = 120[16]$$

$$F_{Ax} = \sqrt{120^2 - 55^2} = 106[16]$$

$$(\sum F_x = 0) \quad F_{Bx} = F_{Ax} = 106[16]$$

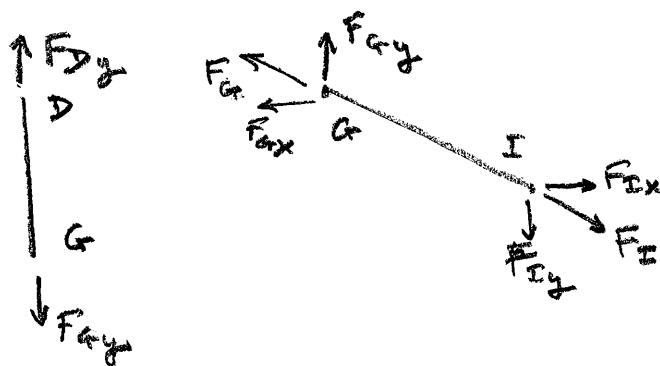
$$(\sum F_y = 0) \quad F_{By} = F_{Ay} = 55[16]$$

LINK B-D-F $(\sum M_F = 0); 55(8.89) - 106(4.58) + F_{Dy}(4) - F_{Dx}(2.06) = 0$

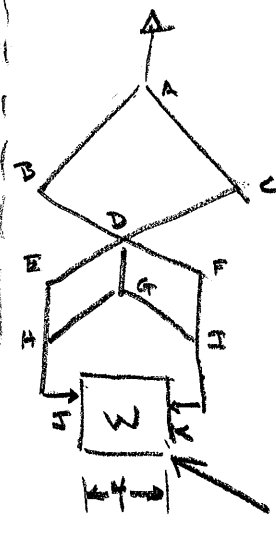


LINK D-G

LINK G-I



$$W = 100[16]$$



$$\text{Weight of tong} = 10[16]$$

LINK F-I-K

