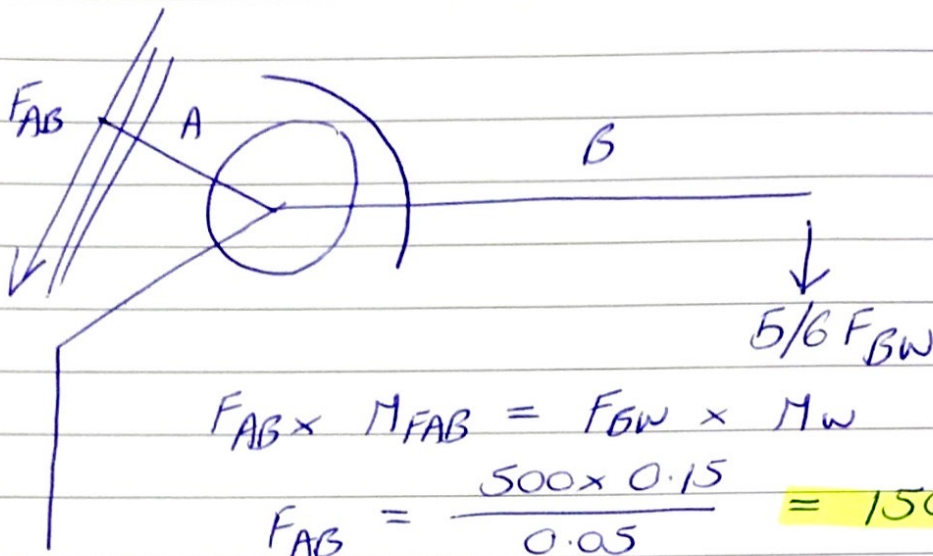


HIP FBD



$$A = 0.05$$

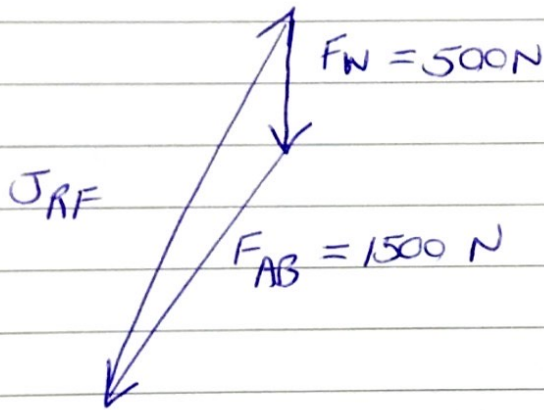
$$B = 0.15$$

$$F_{BW} = 600 \text{ N}$$

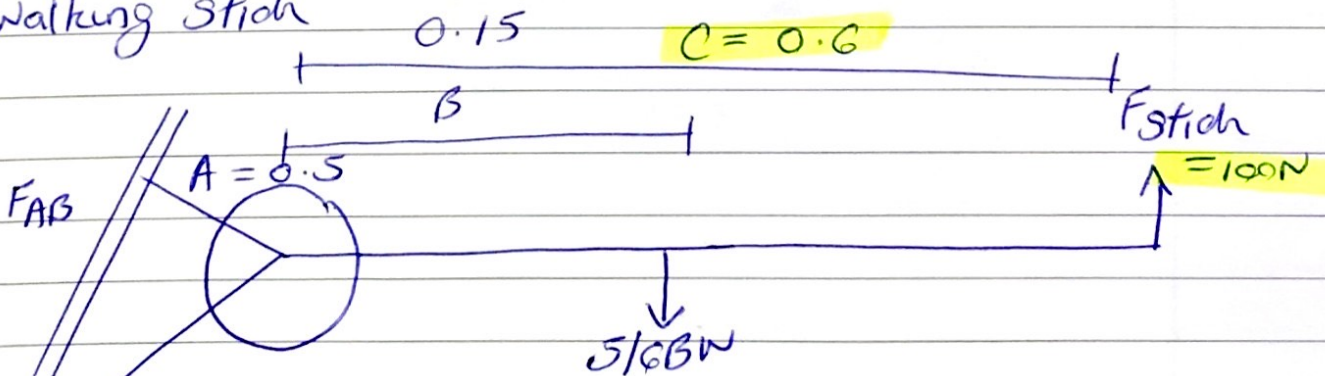
$$5/6 F_{BW} = 500 \text{ N}$$

$$F_{AB} \times M_{FAB} = F_{BW} \times M_W$$

$$F_{AB} = \frac{500 \times 0.15}{0.05} = 1500 \text{ N}$$



Walking stick

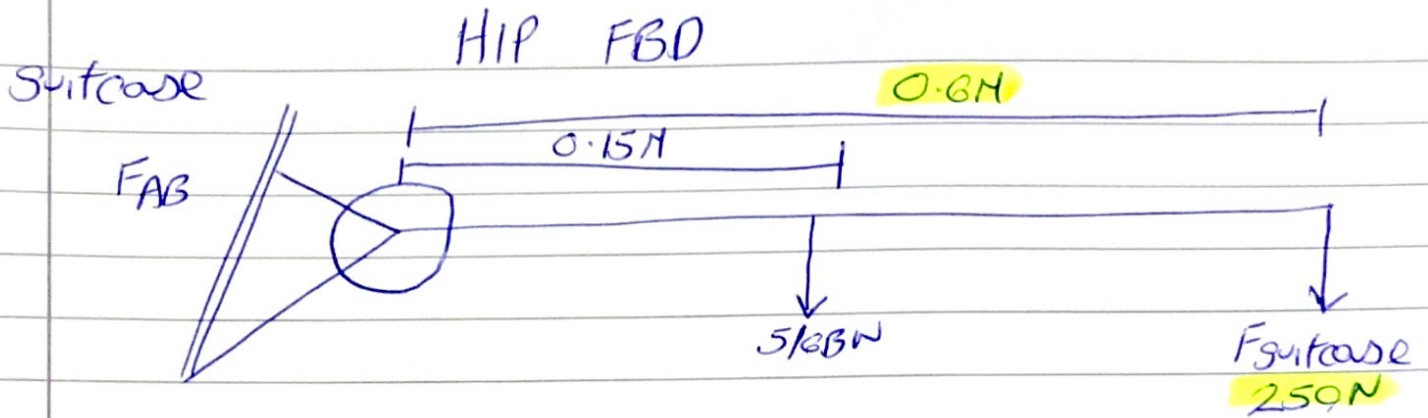


$$F_{AB} \times 0.05 + 100 \times 0.6 = 500 \times 0.15$$

$$F_{AB} \times 0.05 + 60 = 75$$

$$F_{AB} \times 0.05 = 75 - 60$$

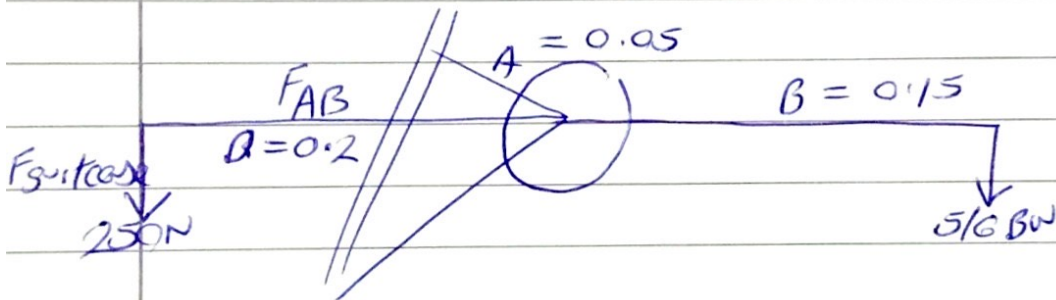
$$F_{AB} = \frac{15}{0.05} = 300 \text{ N}$$



$$F_{AB} \times 0.05 = 500 \times 0.15 + 250 \times 0.6$$

$$F_{AB} \times 0.05 = 75 + 150$$

$$F_{AB} = \frac{225}{0.05} = 4500 \text{ N}$$



$$F_{AB} \times 0.05 + 250 \times 0.2 = 500 \times 0.15$$

$$F_{AB} \times 0.05 + 50 = 75$$

$$F_{AB} \times 0.05 = 25$$

$$F_{AB} = \frac{25}{0.05} = 500 \text{ N}$$