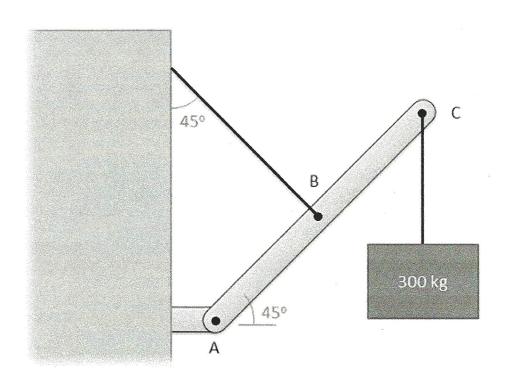
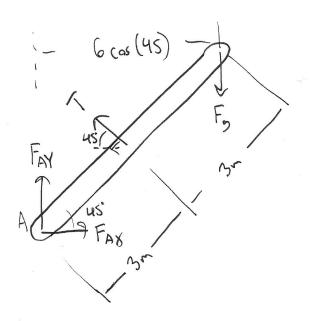
Member ABC is 6 meters long with point B being in the middle. Determine all forces acting on member ABC.



$$F_g = (300 \text{ hs})(9.81)$$

 $F_g = 2943 \text{ N}$



$$\Sigma F_{x} = F_{AX} - T_{cos}(45) = 0$$

 $\Sigma F_{y} = F_{AY} + T_{Sin}(45) - 2943 = 0$
 $\Sigma M_{A} = (3)(T) - (2943)(6cos(45)=0$

$$T = \frac{(2943)(6\cos(45))}{3}$$
 $T = 4162 N$

$$F_{AX} = T_{COJ}(4S) = 2943N$$

$$F_{AX} = 2943N$$