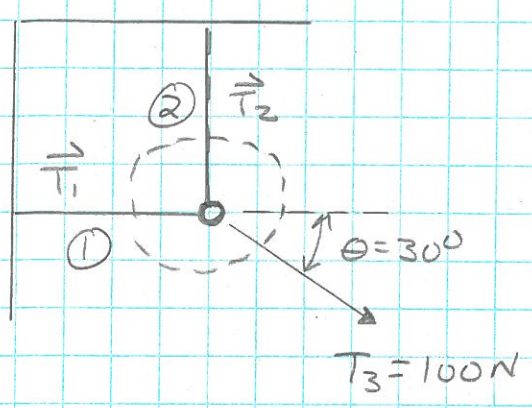
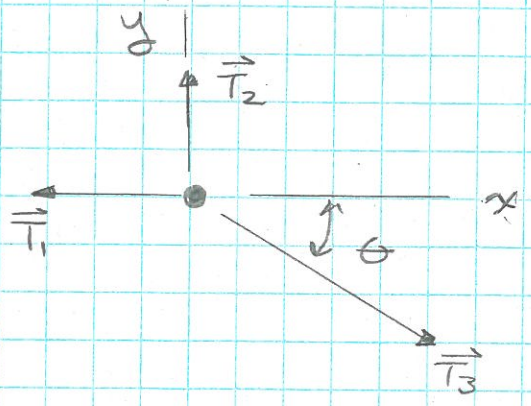


FBD



Find T_1 & T_2:

For Static Equilibrium: $\vec{F}_{net} = 0$

x-component: $\Sigma F_x = 0$

$$-T_1 + T_3 \cos\theta = 0$$

So: $T_1 = T_3 \cos\theta = \underline{86.60\,N}$

y-component: $\Sigma F_y = 0$

$$T_2 - T_3 \sin\theta = 0$$

So: $T_2 = T_3 \sin\theta = \underline{50N}$