

$$P_1 = 450 \text{ lb}, P_2 = 600 \text{ lb}$$

$$\tan(30) = \frac{h}{6}$$

$$h = 6 \tan(30) = 3.46'$$

$$\rightarrow \sum F_x = 0, 450 \text{ lb} + R_{AX} = 0, R_{AX} = -450 \text{ lb} = 450 \text{ lb} \leftarrow$$

$$\circlearrowleft \sum M_A = 0, -(3.46')(450 \text{ lb}) + (6')(R_C) = 0$$

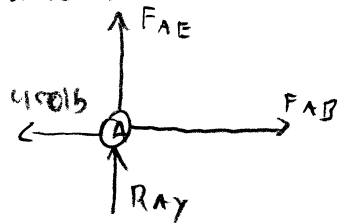
$$R_C = 259.5 \text{ lb} \uparrow$$

$$+\uparrow \sum F_y = 0, -600 \text{ lb} + R_{AY} + 259.5 \text{ lb} = 0$$

$$R_{AY} = 340.5 \text{ lb} \uparrow$$

Joint A

Assume 'T'



$$+\uparrow \sum F_y = 0, F_{AE} + 340 = 0, F_{AE} = -340 \text{ lb} = 340 \text{ lb} \text{ C}$$

$$\sum F_x = 0, -450 + F_{AB} = 0, F_{AB} = 450 \text{ lb} \text{ T}$$

Joint E

