

1. Calcular las tensiones

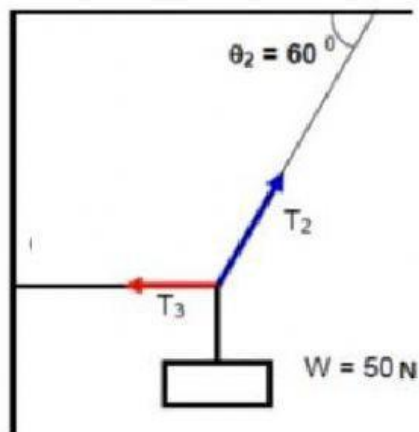
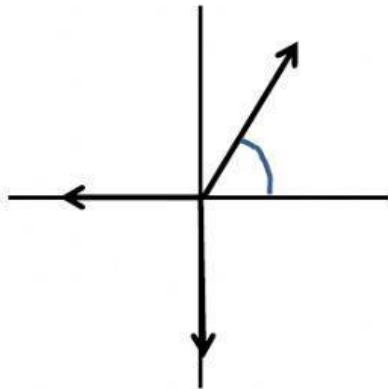


Diagrama de Cuerpo Libre



$$F_x = T_2 \cos \theta_2 - T_3 = 0$$

$$F_x = T_2 \cos 60^\circ - T_3 = 0$$

$$T_2 = T_3$$

$$T_2 = T_3$$

$$F_y = T_2 \sin \theta_2 + T_3 - W = 0$$

$$F_y = T_2 \sin 60^\circ + T_3 - 50 = 0$$

$$T_2 = T_3$$

$$T_3 =$$

2. Calcular las tensiones en cada cuerpo si $W=200\text{N}$

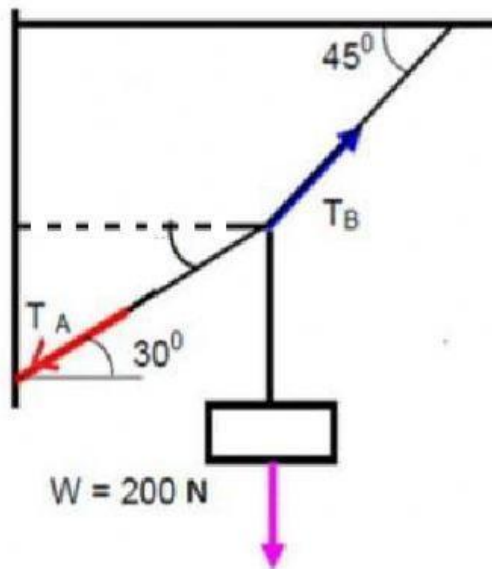
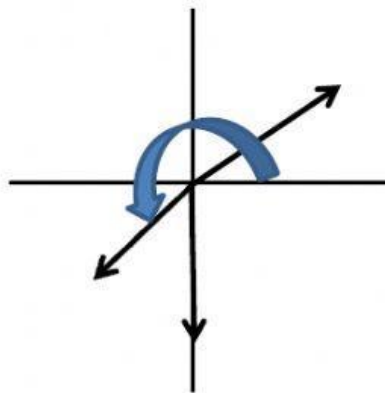


Diagrama de Cuerpo Libre



$$F_x = T_A \cos 30^\circ + T_B \cos 45^\circ = 0$$

$$F_y = T_A \sin 30^\circ + T_B \sin 45^\circ - W = 0$$

$$T_A = T_B$$

$$T_A = \frac{W}{\sin 30^\circ + \sin 45^\circ} ; T_A = T_B$$

$$F_y = \text{Sen} + T_B - = 0$$

$$F_y = T_A + T_B =$$

$$() + =$$

$$+ =$$

$$=$$

$$T_B = \text{---} =$$

$$T_A = ()() =$$