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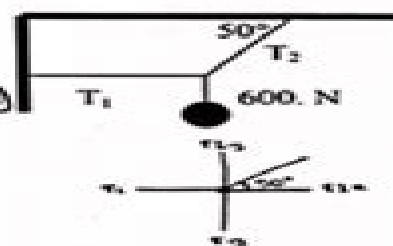
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Static Equilibrium Practice

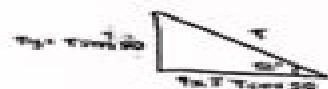
- 1) For the situation shown to the right, find the values of T_1 and T_2 if T_2 has a weight of 600 N.



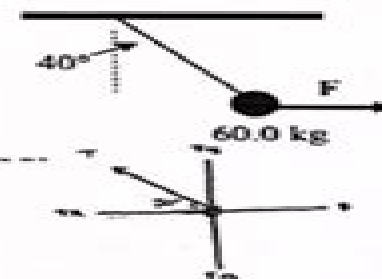
$$\begin{aligned} \sum F_x &= -600 \text{ N} + T_2 \sin 50^\circ \rightarrow 0 \rightarrow -600 \text{ N} + T_2 \sin 50^\circ \\ \Rightarrow 600 &= T_2 \sin 50^\circ \rightarrow T_2 = \frac{600}{\sin 50^\circ} = \boxed{T_2 = 783.14 \text{ N}} \\ \sum F_y &= -T_1 + T_2 \cos 50^\circ \rightarrow 0 \rightarrow -T_1 + T_2 \cos 50^\circ \\ \Rightarrow T_1 &= 783.14 \cos 50^\circ = \boxed{T_1 = 503.46 \text{ N}} \end{aligned}$$



- 2) Examine the diagram to the right. What force F is required to keep the 60.0 kg mass in static equilibrium?



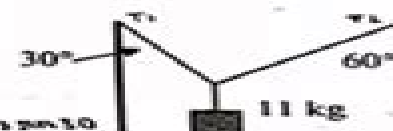
$$\begin{aligned} F_y &= mg = T \sin 50^\circ = (60)(9.8) \rightarrow T \sin 50^\circ = 600 \\ \Rightarrow T &= 783.14 \\ T \cos 50^\circ &= 783.14 \cos 50^\circ \rightarrow \boxed{F = 503.46 \text{ N}} \end{aligned}$$



- 3) An 11 kg lamp is supported between two vertical poles by two wires attached as shown to the right. What is the tension in the right wire?



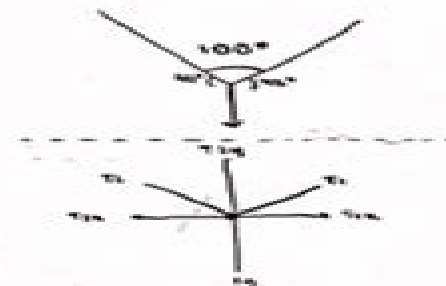
$$\begin{aligned} \sum x &\rightarrow 0 = T_1 \sin 30^\circ - T_2 \sin 60^\circ \rightarrow T_1 \cos 60^\circ = T_2 \cos 30^\circ \rightarrow T_1 = \frac{T_2 \cos 30^\circ}{\cos 60^\circ} \\ \sum y &\rightarrow 0 = T_1 \cos 30^\circ + T_2 \sin 60^\circ - T_2 \sin 30^\circ \rightarrow 0 = \left(\frac{T_2 \cos 30^\circ}{\cos 60^\circ} \right) \sin 60^\circ + T_2 \sin 30^\circ \\ \Rightarrow 0 &= T_2 \cos 30^\circ (\tan 60^\circ + 1) \rightarrow T_2 \sin 30^\circ \rightarrow 0 = 2T_2 \rightarrow \boxed{T_2 = 55 \text{ N}} \\ T_1 &= \frac{T_2 \cos 30^\circ}{\cos 60^\circ} \rightarrow T_1 = \frac{55 \cos 30^\circ}{\cos 60^\circ} \rightarrow \boxed{T_1 = 95.3 \text{ N}} \end{aligned}$$



- 4) Two wires are used to suspend a sign that weighs 500. N. The two wires make an angle of 100° between each other. If each wire is exerting an equal amount of force, how much force does each wire exert? Draw a diagram to show this situation.

$$\begin{aligned} \sum x &\rightarrow -T_1 \sin 40^\circ + T_2 \sin 40^\circ \rightarrow T_1 \sin 40^\circ = T_2 \sin 40^\circ \\ \Rightarrow T_1 \cos 40^\circ &= T_2 \cos 40^\circ \rightarrow T_1 = T_2 \\ \sum y &\rightarrow 0 = -500 + T_1 \sin 40^\circ + T_2 \sin 40^\circ \\ \Rightarrow 500 &= T_1 \sin 40^\circ + T_1 \sin 40^\circ \\ \rightarrow 500 &= 2T_1 \sin 40^\circ \rightarrow \frac{500}{\sin(40^\circ)} \rightarrow T = \boxed{388.93} \end{aligned}$$

$$\boxed{T_1 = 388.93} \\ \boxed{T_2 = 388.93}$$



Mastering Physics Answers Static Equilibrium

Katrin Zwirgmaier



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