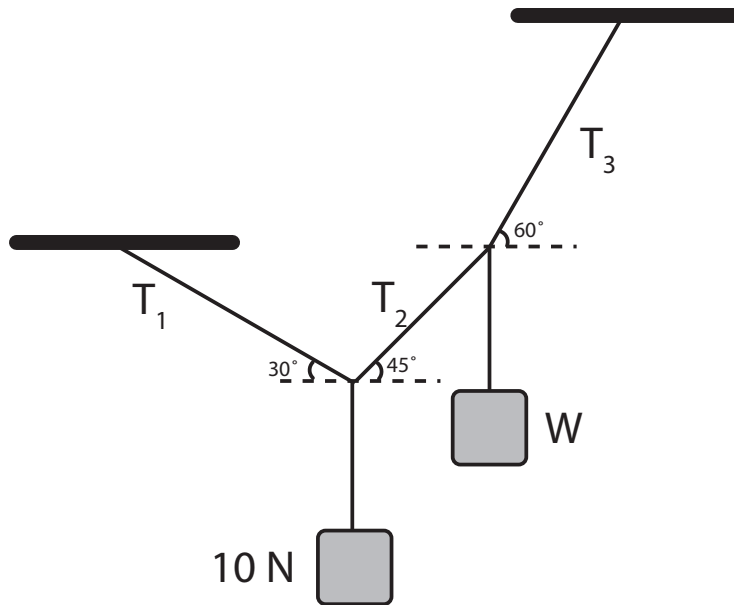
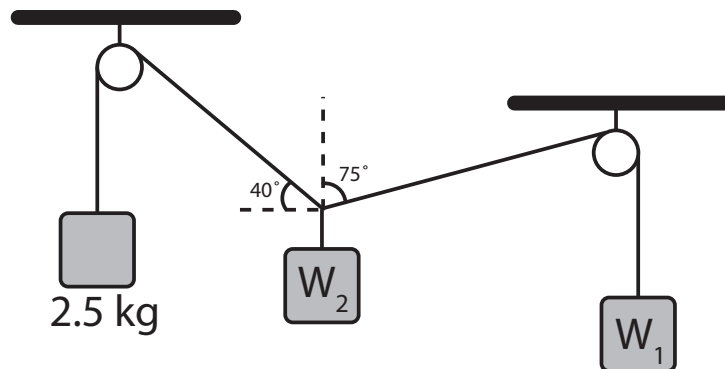


***Static Equilibrium:
masses connected with strings***

1. Find T_1 , T_2 , T_3 , and W .



2. Find the values of W_1 and W_2 so that the system remains in equilibrium. Assume massless, frictionless pulleys.



answers

1. $T_1 = 7.32\text{ N}$, $T_2 = 8.96\text{ N}$, $T_3 = 12.7\text{ N}$, $W = 4.64\text{ N}$
 2. $W_1 = 19.4\text{ N}$, $W_2 = 20.8\text{ N}$