Homework Problem H6.E

Given: A cable is pulled over a fixed pulley. Blocks A and B (having weights of W_A and W_B , respectively) are attached to the ends of the cable. The coefficient of static friction between the drum and the cable is known to be μ_S .

Find: For this problem:

- a) Determine the smallest weight of A for which the system can be in equilibrium.
- b) Determine the largest weight of A for which the system can be in equilibrium.

For this problem, use the following parameters: $W_B = 100$ lb and $\mu_s = 0.4$.

