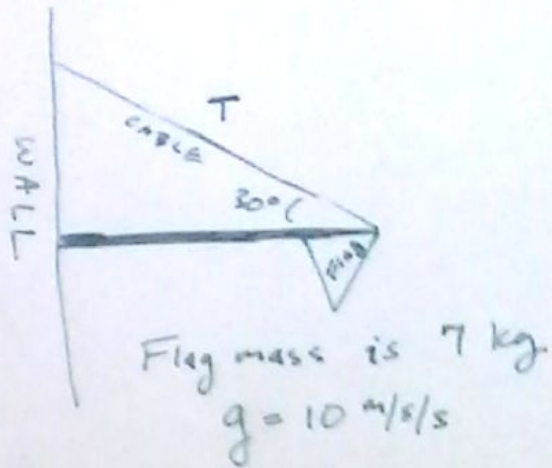


#1



a.) Draw a quantitative force diagram for the flag.

b.) Determine  $T_y$ , begin with  $\sum F_y = 0$

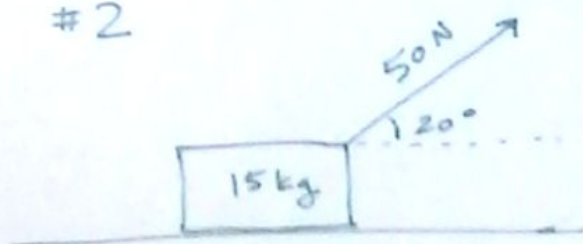
c.) Solve for  $T_x$ , begin with  $\sum F_x = 0$

d.) Solve for total Tension in the cable.

#2

$$g = 10 \text{ m/s}^2$$

$$\mu_k = .2$$



a.) Draw a quantitative force diagram for the box.

b.) Determine  $F_N$ , begin with  $\sum F_y = 0$

c.) Calculate force friction.

d.) Calculate net force.

e.) Calculate acceleration.

(B)