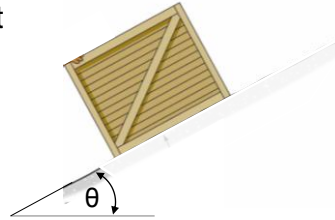


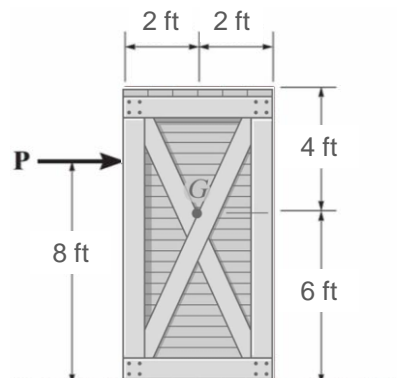
## Equilibrium – Slip?

Will the 200-lb crate slide down the  $\theta=30^\circ$  incline, if the coefficient of static friction is 0.35?



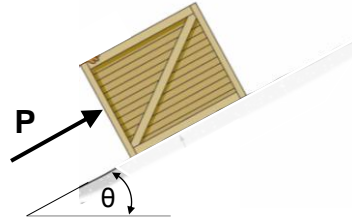
## Equilibrium – Tip?

Will the 400-lb crate slip, tip, or remain stable if  $P = 125$  lb? The coefficient of static friction is 0.35.



## Impending Motion at One Point: A

What is the minimum force  $P$  to prevent the 200-lb crate from sliding down the  $\theta=30^\circ$  incline, if the coefficient of static friction is 0.25?



## Impending Motion at One Point: B

What minimum force  $P$  is needed to start the 200-lb crate sliding up the  $\theta=30^\circ$  incline, if the coefficient of static friction is 0.25?

