AP-1 Things on a Slope I (Statics)

Basic Situation

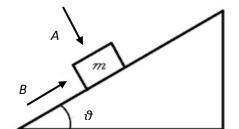
There are two ways to have a lonesome block on a slope that does not move:

• Static friction

Draw a free-body diagram and explain how static friction supports the block.

Why does the block slip if the angle increases too much?

• Another force(s)



Consider the two forces, A and B. Explain how each force prevents the object sliding down the slope. For each, state the balanced force equation (no need to solve). There IS friction. (i.e. $\mu > 0$)

Force A	Force B	

