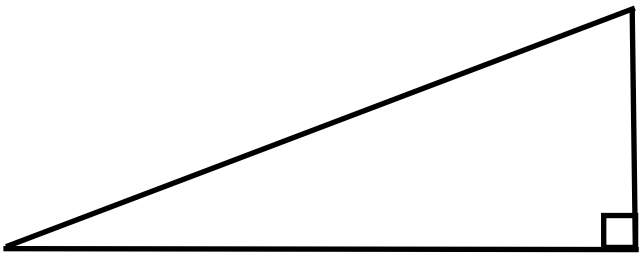
P h y s i c s name _____ period ____

Inv-7 Expan 7B: More help with Inclined Planse sheet #____

1.) **Watch the following short help video Mr. Askey did for forces on inclined planes:**
https://vimeo.com/89961254

Yea! Now's the time of the show where you draw along with Mr. Askey's hand from the video! Draw the FBD from his sample problem that he goes over on the help video. Show the symbols and angles.



2.) A **50kg** block is pulled down an **30°** inclined plane at an acceleration of **12m/s/s.** There is a frictional force of **42N** from the incline. What force is being put on the block?

Required FBD:

3.) Crazy Joe Clay wakes up and realizes there must have been a little "accident". Hearing the approaching police sirens, he decides to hide the 160lb bag by his side under some bushes at the top of a hill. He pulls at a 40° angle on the bag as he scrambles up the 12° hill. The bag/grass contact has a kinetic friction of 20lbs. With how many pounds of force must he pull on the bag to get it up the 12ft hill in 7 seconds?