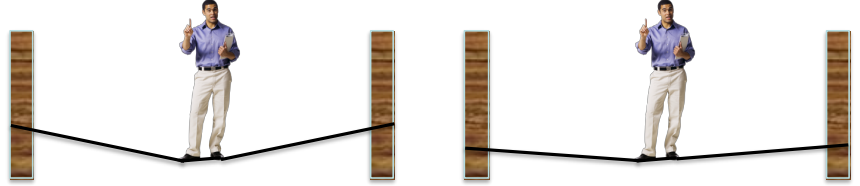


PS#10 Due never, but I'll post solutions after the last day of class. Please pay good attention to describe the lens you are using and explain your method.

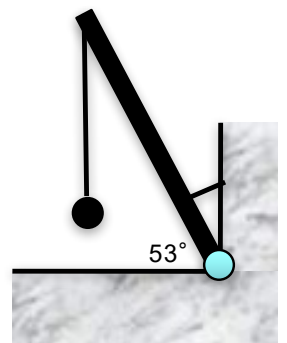
**** Make sure to consider the direction of acceleration to inform your choice of axis. Do you remember how to pick a good axis?

1. Slacklining is pretty fun, but you have to run some webbing between two trees first. At right, you see two pictures of me at 70 kg, slack lining.



- a) In which drawing is the line tighter? Please prove how you know this with a good force drawing and discussion. Lens?
b) Using your force drawing, please estimate the tension on the slack line at left.

2. In the diagram at right, a string of some length supports a 100 kg ball. The length of the tilted rod is 10 m and the cable is attached 2.5 m from the pivot. From the drawing at right (make your own better drawing), estimate the tension on the cable and the force provided by the foundation at the pivot.



3. Hit a baseball off a cliff: Exercise 6, section 7.6