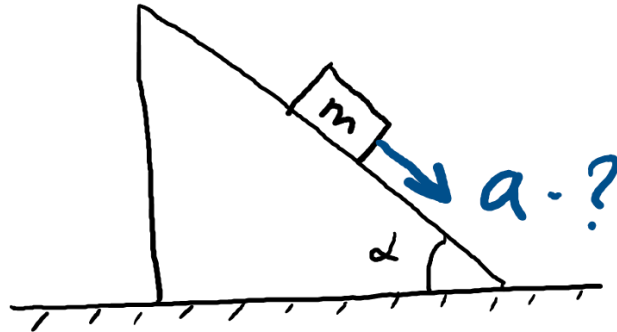Homework 2.

1. A brick is placed on a tilted surface. The friction coefficient between the surface and the brick is μ. The mass of the brick is $\mathbf{m}$, the tilt angle is α. Find the acceleration of the brick.

2. The wedge of problem 1 is now accelerated to the right so the brick does not slide at all. The surface of the wedge is now frictionless. Find the acceleration of the wedge.