

PHYS 211: Quiz 4

May 21, 2012

- A slightly heavy object sits on a table. You start pushing it for a few seconds and then keep moving it at constant speed (just like the demos in class).
 1. Draw a picture and show all the horizontal forces (i.e., forget about gravity) acting **on the object** in the different stages of motion.
 2. Draw a plot of force applied by you against time, frictional force against time, and the force applied by the object on you against time.
 3. Also draw a plot of the velocity and acceleration of the object against time. Clearly indicate any points in time when a significant change occurs.