I. (4 pts) In a baseball game a batter hits a home run. Which of the following forces act on the baseball while it is flying high over second base? (Circle the letter to indicate such an acting force.)
   A) The force of the hit
   B) Gravity
   C) Air resistance
   D) Centrifugal force (because the baseball’s trajectory is like part of a circle.)
   E) Newton’s Third Law reaction force to air resistance.

II. (4 pts) A 10 kg block on a horizontal table top connected to a light string which is being pulled to the right with a force of 25 Nt. The coefficient of friction for the block on the table top is $\mu$. Initially a hand holds the block in place. Then at $t = 0$ the hand is removed and the block is free to move. IMPORTANT: USE $g = 10 \text{m/s}^2$

III. (4 pts) How far (from its initial position) does the block move in 2 seconds after $t = 0$ if $\mu = 0.2$? Also give the magnitude of the frictional force.