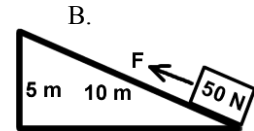
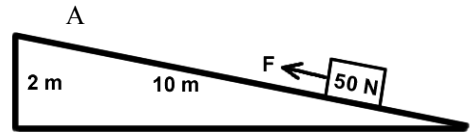


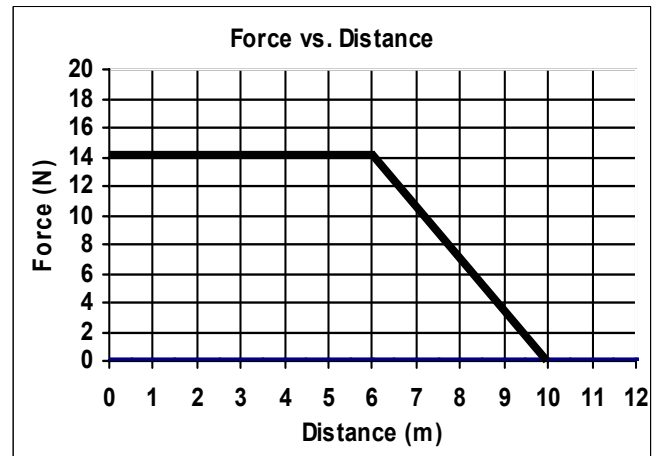
PreAP: due Tues., Nov 17 (Assigned: Tues., Nov 15)
 Reg: due Wed., Nov 18 (Assigned: Wed., Nov 16)

Test Review Ch 5

- Use the pictures at the right to answer the following:
 - What kind of simple machine is shown?
 - Which one has the greatest MA?
 - Label F_{in} , F_{out} , D_e , and D_r for picture B.
 - Find the MA for picture A.



- A toy company once claimed that one of their superballs would rebound higher than where it was dropped. Respond.
- A simple machine has an MA of 5.
 - Does the machine increase or decrease your force?
 - Which is bigger: F_{in} or F_{out} ?
 - Which is bigger: D_e or D_r ?
 - Which is bigger: Win or Wout?
- Using a pulley, a 30 N force is required to lift a 180 N crate 2 meters. If you push down 15 m, how efficient is the pulley?
- Which of the following simple machines increases force (I), decreases force (D) or is neutral (N):
 - _____ MA = 2.5
 - _____ MA = 1
 - _____ MA = 4.2
 - _____ MA = 0.2
- A 2 kg object is moving 6 m/s. Use the graph at the right to find out how fast it is going afterward.



- A 3 kg object is going 10 m/s. If the $\mu = 0.25$, find how far it slides before friction stops it.
- A 4 kg object is 6 meters up a 30° ramp. If it starts at rest how fast is it going at the bottom if $F_f = 8$ N.

MORE ON BACK

10. Could the object be alive or not? If yes, which characteristic of life is demonstrated?
- A. An object found in a dark cave moves away from light.
 - B. An object seems to have hair. When it is placed in light nothing happens; when it is given glucose and several other forms of food, nothing happens.
 - C. After being in a lab for several days an object splits in two. The two resulting objects eventually split again.
 - D. When studied under a microscope an object seems to be made up of individual compartments.
 - E. A object is poked and subjected to intense heat, but does nothing.