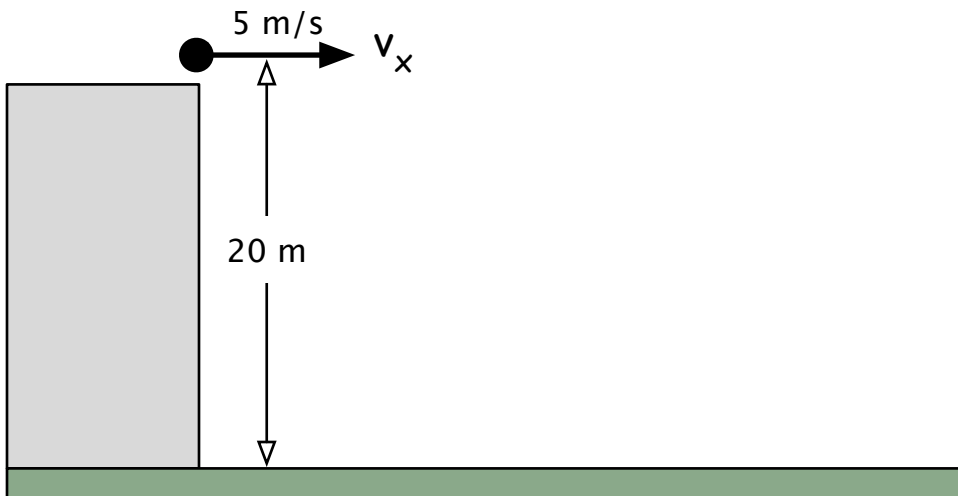


Physics I  
Chapter 3 Assignment 1

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_



a. On the diagram above make a sketch of the trajectory of the ball and indicate  $\Delta x$  and  $\Delta y$  for the ball on your diagram.

b. How much time elapses from launch until impact?

\_\_\_\_\_

c. Sketch a **quantitative** graph of  $v_x$  vs  $t$ .

d. Sketch a **quantitative** graph of  $v_y$  vs  $t$ .

e. How far from the base of the building does the ball hit the ground?

\_\_\_\_\_

f. How fast is the ball traveling when it hits the ground?

\_\_\_\_\_