

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## MCHS Honors Physics 2014-2015

### Projectile Motion 1

- 1) A tennis ball rolls off a Mr. Alderman's front table with an initial horizontal speed of 30 cm/s. How far will the ball land from the base of the table if the table's height is 1.25 m?
  
  
  
  
  
  
  
  
  
  
- 2) An arrow is fired horizontally with a speed of 25.0 m/s from the top of a 150.0 meter tall cliff. Assuming no air resistance, determine the distance the arrow will drop in 2.50 seconds.
  
  
  
  
  
  
  
  
  
  
- 3) What is the horizontal speed of a projectile, launched horizontally from the top of a 100.0 meter cliff, if it lands 40.0 m away from the base of the cliff?