

QUIZ # 2. CHAPTER 3. PHYS 203. Spring 2006

NAME:

1. A batter hits a baseball so that it leaves the bat with an initial speed $v_0 = 37.0\text{m/s}$ at an initial angle $\theta = 53.1^\circ$ with the horizontal.

Find:

- (a) The position of the ball and the magnitude and direction of its velocity at $t=2$ s.
- (b) Find the time when the ball reaches the highest point of its flight.
- (c) Find the height H at this point.
- (d) Find the horizontal range R .