Physics 203 - Section: 06/01/2015 Quiz 1 Name : ….....

For full credit, be sure to show all your work.

1) (1 point) A woman walks 250 meters in the direction 30 degrees EAST of NORTH, then 175 meters directly EAST. Find the magnitude and the angle of her final displacement from the starting point.

2) (1 point) A ball is hit straight up into the air with a speed of 10.0 m/s. a) Calculate the time required for the ball to rise to its maximum height. b) Calculate the maximum height reached by the ball.

3) (1 point) A hockey puck slides off the edge of a table with an initial velocity of 2.0 m/s. and experiences no air resistance. The height of the tabletop above the ground is 1.50 m. a) How long does it take for the puck to reach the ground? b) Find the maximum horizontal distance that hockey puck travels before it hits the ground .