

### **Physics 10154 - Quiz 3A**

A ball is launched at an angle of  $41.0^\circ$  above the horizontal and reaches its maximum height above ground 3.80 seconds after launch.

- a) What is the initial velocity of the ball?
- b) What is the magnitude and direction of the ball's velocity when the ball reaches its maximum height?
- c) What is the total horizontal distance travelled by the ball from launch until it hits the ground again?