

c. What are the magnitude and direction of the ball's velocity when it strikes the wall?

d. Has the ball reached the highest point of its trajectory at this time? Explain.

3. When the dried up seed pod of a scotch broom plant bursts open, it shoots out a seed with an initial velocity of 2.7 m/s at an angle of 60.0° above the horizontal. The seed pod is located 1.0 m above the ground.
- How long does it take for the seed to land?

b. What horizontal distance does it cover during its flight?