

Lesson 17. Projectile Motion, continued

Example 1. David Ortiz hits a baseball at a 20° angle from 3 ft above the ground, which just clears the left end of the “Green Monster,” the left-field wall in Fenway Park. The wall is 37 ft high and 315 ft from home plate.

- (a) What was the initial speed of the ball?
- (b) How long did it take the ball to reach the wall?

Example 2. A projectile is fired from 100 m above the ground with an initial speed of 200 m/s and angle of elevation 60° . Find

- (a) the range of the projectile,
- (b) the maximum height reached, and
- (c) the speed at impact.