

95. We take the initial (x, y) specification to be $(0.000, 0.762)$ m, and the positive x direction to be towards the “green monster.” The components of the initial velocity are $(33.53 \angle 55^\circ) \rightarrow (19.23, 27.47)$ m/s.
- (a) With $t = 5.00$ s, we have $x = x_0 + v_x t = 96.2$ m.
 - (b) At that time, $y = y_0 + v_{0y} t - \frac{1}{2} g t^2 = 15.59$ m, which is 4.31 m above the wall.
 - (c) The moment in question is specified by $t = 4.50$ s. At that time, $x - x_0 = (19.23)(4.5) = 86.5$ m, and $y = y_0 + v_{0y} t - \frac{1}{2} g t^2 = 25.1$ m.