

$$V_{y,0} = V_0 \sin \theta \approx 4.33$$

$$V_{x,0} = V_0 \cos \theta = 2.5$$

$$y = \frac{1}{2} g t^2 + v_{0y} t + y_0 \quad t = \frac{V_{y,0}}{g} = .44$$

$$y = \frac{1}{2} (9.8) (.44)^2 + 5 (.44) = 3.17 \text{ m}$$