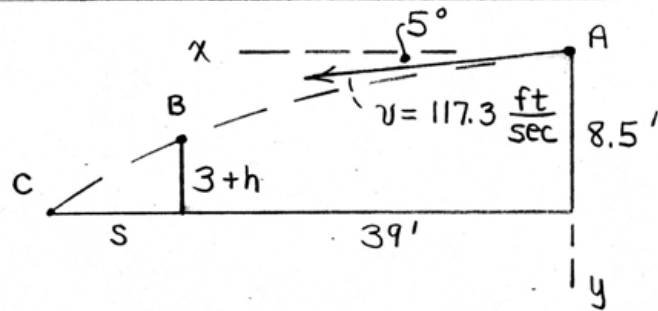


2/84



$$a_x = 0, \quad x = v_{x_0} t : 39 = 117.3 \cos 5^\circ t_B, \quad t_B = 0.334 \text{ sec}$$

$$a_y = g, \quad y = v_{y_0} t + \frac{1}{2} g t^2 : \text{ At B,}$$

$$5.5 - h = 117.3 \sin 5^\circ (0.334) + \frac{1}{2} (32.2) (0.334)^2$$

$$h = \underline{0.296 \text{ ft}} \quad \text{or} \quad h = \underline{3.55 \text{ in.}}$$

$$\text{At C: } 8.5 = 117.3 \sin 5^\circ t_c + 16.1 t_c^2$$

$$t_c = 0.475 \text{ sec}$$

$$x\text{-equation at C: } 39 + s = 117.3 \cos 5^\circ (0.475)$$

$$\underline{s = 16.57 \text{ ft}}$$