

2/71 Set up x-y axes at the initial location of B.

$$\left. \begin{aligned} x &= x_0 + v_{x0}t : 3 = (v_0 \cos \theta)t \\ y &= y_0 + v_{y0}t - \frac{1}{2}gt^2 : 2.5 = (v_0 \sin \theta)t - \frac{1}{2}(32.2)t^2 \\ v_y &= v_{y0} - gt : 0 = v_0 \sin \theta - 32.2t \end{aligned} \right\}$$

Solve simultaneously : $\begin{cases} t = 0.466 \text{ sec} \\ v_0 = 16.33 \text{ ft/sec} \\ \theta = 66.8^\circ \end{cases}$

2/72 $a_y = -g$ so $y = 0 - \frac{1}{2}gt^2$, $t = \sqrt{\frac{2y}{g}} = \sqrt{\frac{2(28-16)}{32.2}}$



2/73



$$\begin{aligned} x &= x_0 + v_{x0}t \text{ @ B: } R = 0 + (v_0 \cos \theta)t_f \quad (1) \\ y &= y_0 + v_{y0}t - \frac{1}{2}gt^2 \text{ @ B: } 0 = 0 + (v_0 \sin \theta)t_f - \frac{1}{2}gt_f^2 \\ (2): t_f &= 0, \frac{2v_0 \sin \theta}{g} \quad (t=0 \text{ is launch time}) \end{aligned}$$

$$(1): R = (v_0 \cos \theta) \left(\frac{2v_0 \sin \theta}{g} \right) = \frac{v_0^2 \sin 2\theta}{g}$$

$$\frac{dR}{d\theta} = 0 : \frac{2v_0^2}{g} 2 \cos 2\theta = 0 \Rightarrow \theta = 45^\circ$$

$$R_{max} = \frac{v_0^2 \sin(2 \cdot 45^\circ)}{g} = \frac{v_0^2}{g}$$

2/74 Use x-y coordinates of the figure.

(a) $v_0 = 45 \text{ ft/sec}$

$$x = x_0 + v_{x0}t \text{ @ left wall: } 30 = 0 + 45 \cos 60^\circ t$$

$$t = 1.333 \text{ sec}$$

$$y = y_0 + v_{y0}t - \frac{1}{2}gt^2 : y = 5 + 45 \sin 60^\circ (1.333) - \frac{1}{2}(32.2)(1.333)^2$$

$$= 28.3 \text{ ft (hits wall)}$$

$$\text{Ans: } (x, y) = (30', 28.3')$$

(b) $v_0 = 60 \text{ ft/sec}$

Repeat above procedure to find $y = 44.9'$ when $x = 30'$, so water clears left wall.

$$x = x_0 + v_{x0}t \text{ @ right wall: } 50 = 0 + 60 \cos 60^\circ t$$

$$t = 1.667 \text{ sec}$$

y eq. yields $y = 46.1 \text{ ft}$ @ $t = 1.667 \text{ sec}$, so water clears building! For horizontal range:

$$\text{From } y = y_0 + v_{y0}t - \frac{1}{2}gt^2 \text{ @ } y = 0, y_0 = 5 \text{ ft, we find } t = -0.0755 \text{ s + } t = 3.32 \text{ s. From}$$

$$x = x_0 + v_{x0}t : x = 0 + 60 \cos 60^\circ (3.32) = 99.6 \text{ ft}$$

2/75

$$a_y = -\frac{gE}{m}, \text{ constant}$$

$$a_x = 0$$



$$v_y^2 - v_{y0}^2 = 2a_y y : \text{At top, } 0 - (v \sin \theta)^2 = 2 \left(-\frac{gE}{m} \right) \frac{h}{2}$$

$$E = \frac{mv^2 \sin^2 \theta}{2h}$$

$$y = v_{y0}t + a_y t^2 : \text{At top, } 0 = v \sin \theta - \frac{gE}{m} t$$

$$t = \frac{mv \sin \theta}{gE}$$

$$x = v_{x0}t : s = (v \cos \theta)(2t) = v \cos \theta \left(\frac{2mv \sin \theta}{gE} \right)$$

$$= v \cos \theta \left(\frac{2 \frac{mv \sin \theta}{gE}}{\frac{mv^2 \sin^2 \theta}{2h}} \right) = \frac{2h \cot \theta}{\sin \theta}$$

2/76

$t = 0$: package dropped at A

t_b, t_c : times package at point B, C



$$\text{From A to B: } y = \frac{1}{2}gt_b^2 \quad (1)$$

$$\text{From B to C: } (400 - y) = \frac{1}{2}g(t_c - t_b)^2 \quad (2)$$

Also, $t_c = 37 \text{ sec}$. Solve (1) & (2) to

$$\text{obtain } t_b = 3.52 \text{ sec, } y = 172.1 \text{ ft}$$

$$L = 180 \left(\frac{3.52}{36.8} \right) (3.52) = 922 \text{ ft}$$

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Brian Harper



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