

Ch4

#34

$$X = 8.95 \text{ m}$$

$$V_x = 9.5 \text{ m/s}$$

$$g = 9.80 \text{ m/s}^2$$

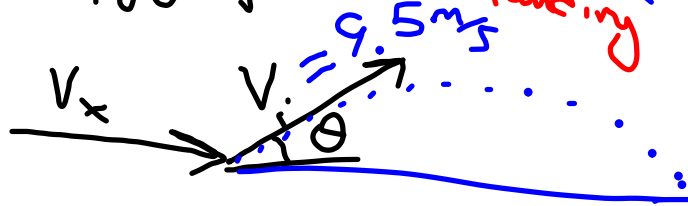
$$a_y = -9.80 \text{ m/s}^2$$

Projectile MOTION

when take off height is

Same as landing

$$d_x = \frac{V^2 \sin 2\theta}{g}$$



Max d_x occurs when $\theta = 45^\circ$

Do today
P 19, 28, 31