

Saman a 21

1) $V_{0x} = 20 \text{ m/s}$

$y = 6 \text{ m}$

$$t = \sqrt{\frac{2y}{g}}$$

$$t = \sqrt{\frac{12}{9.8}}$$

$$\sqrt{1.22}$$

$$t = 1.10 \quad x = V_{0x} \cdot t \quad 20 \text{ m/s} \times 1.10$$

$$x = 22 \text{ m}$$

2) $y = 100 \text{ m}$

$y = 80 \text{ m}$

$V_{0x} =$

$$t = \sqrt{\frac{200}{9.8}}$$

$$t = \sqrt{20.41}$$

$$t = 4.52$$

$$V_{0x} = \frac{80}{4.52}$$

$$V_{0x} = 17.70$$

$$3. y = 2 \text{ m}$$

$$V_{0x} = 5.5 \text{ m/s}$$

$$t = \sqrt{\frac{y}{g}}$$

$$0.41 + 0.03$$

$$V_{0y} \cdot t = 5.5 \times 0.53 \quad x = 3.47 \text{ m}$$

$$4. V_{0x} \approx 1.8 \text{ m/s}$$

$$t = 3 \text{ s} \quad g = 9.8$$

$$y = 44.7 \text{ m}$$

$$x = 5.4 \text{ m}$$

$$5. V_{0x} 26 \text{ m/s}$$

$$y = 72 \text{ cm}$$

$$0.26 \text{ m/s}$$

$$y = 72 \text{ cm}$$

$$0.72 \text{ m}$$

$$x = 0.10 \text{ m}$$

$$7 \sqrt{\frac{144}{9.8}}$$

$$\sqrt{0.15}$$

$$t = 0.39$$

