

Semana 21

$$1) V_{0x} = 20 \text{ m/s} \quad y = 6 \text{ m}$$

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

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

$$t = 1.22$$

$$x = V_{0x} \cdot t = 20 \text{ m/s} \cdot 1.22$$

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

$$2) y = 100 \text{ m} \quad y = 80 \text{ m}$$

$$V_{0x} =$$

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

$$t = \sqrt{20.41}$$

$$t = 4.52$$

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

$$V_{0x} = 17.70$$

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

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

$$L \sqrt{y}$$

$$9.8$$

$$0.41 \pm 0.03$$

$$v_{0x} \cdot t = 5.5 \times 0.53$$

$$x = 3.47 \text{ m}$$

$$4) v_{0x} = 1.8 \text{ m/s}$$

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

$$y = 44.1 \text{ m}$$

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

$$5) v_{0x} = 26 \text{ m/s}$$

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

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

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

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

$$2 \sqrt{14.4}$$

$$9.8$$

$$1) \sqrt{0.13}$$

$$L = 0.79$$