

Semana 21

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

$$y = 6 \text{ m}$$

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

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

$$\sqrt{1.22}$$

$$t = 1.10$$

$$x = v_{0x}$$

$$20 \text{ m/s} \times 1.10$$

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

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

$$x = 80 \text{ m}$$

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

$$t = \sqrt{20.41}$$

$$t = 4.52$$

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

$$v_{0x} = 17.70$$

$$3) y = 2m$$

$$v_{0x} = 5,5 m/s$$

$$t = \frac{\sqrt{4}}{9,8}$$

$$v_{0x} \cdot t = 5,5 \times 0,63$$

$$x = 3,47m$$

$$4) v_{0x} = 1,8 m/s$$

$$t = 3,5$$

$$g = 9,8$$

$$y = 44,1m$$

$$x = 5,4m$$

$$5) v_{0x} = 26 cm/s$$

$$y = 72 cm$$

$$0,26 cm/s$$

$$0,72 m$$

$$x = 0,10 m$$

$$t = \frac{\sqrt{1,44}}{9,8}$$

$$0,15$$

$$t = 0,39$$