

Evaluación

1.

$$v = 60 \text{ m/s}$$

$$D = 15 \text{ m}$$

$$t = \frac{60 \text{ m/s}}{15 \text{ m}} = 4 \text{ m}$$

2.

$$3 \times 10^8 = 300.000.000$$

$$1.5 \times 10^8 = 150.000.000 \text{ km}$$

$$3 \times 10^8 \text{ m/s} \div (1 \text{ k} / 1000 \text{ m}) = 3 \times 10^5$$

$$1.5 \times 10^8 \div 3 \times 10^5 = 5 \times 10^{12} \text{ seg}$$

$$\frac{5 \times 10^{12} \text{ s}}{60} = 8.33 \text{ min.}$$

3.

$$\frac{50 - 25}{45 - 0} = 0,2 \text{ m/s}^2$$

$$\frac{50 - 50}{45 - 0} = 0 \text{ m/s}^2$$

$$\frac{0 - 50}{110 - 85} = -2 \text{ m/s}^2$$

$$7. h = v_i \cdot t + \frac{1}{2} \cdot a \cdot t^2$$

$$h = 0 \cdot 4 + \frac{1}{2} \cdot 9.8 \cdot 4^2$$

$$h = 78.4$$

$$5. v_f^2 = v_0^2 + 2 \cdot a \cdot x$$

$$v_f^2 = 0 + 2 \cdot 9.8 \cdot 70$$

$$v_f^2 = 1372$$

$$v_f = \sqrt{1372} = 37.04$$

$$37.04$$