

Examen 3<sup>o</sup> periodo

$$\textcircled{1} \quad d = v \cdot t \Rightarrow t = \frac{d}{v} \Rightarrow t = \frac{600}{15} \quad t = 40 \quad \text{R: } 40 \text{ s}$$

$$\textcircled{2} \quad 3 \times 10^8 \frac{\text{m}}{\text{s}} \quad 1.5 \times 10^8 \text{ m} \Rightarrow 3 \times 10^8 \frac{(\text{1K})}{(1000\text{m})} = 3 \times 10^5$$

$$\frac{1.5 \times 10^8 \text{ m}}{3 \times 10^5} = 500 \text{ s} \Rightarrow \frac{500 \text{ s}}{60 \text{ s}} = 8.3 \text{ min} \quad \text{R: } 8.3 \text{ min}$$

$$\textcircled{3} \quad A = \frac{50 - 25}{45 - 0} = 0.5 \text{ s}^{-1} = 0.25 \quad B = 0 \quad C = \frac{0 - 50}{110 - 85} = -2$$

R: A = 0,2    B = 0    C = -2

$$\textcircled{4} \quad \frac{1}{2} \times 9.8 \times 4^2 = 78.4 \quad \text{R: } 78.4 \text{ m}$$

t = 4s    g = 9.8

$$\textcircled{5} \quad v_f^2 = 0^2 + 2 \times 9.8 \times 70 = 1372 \Rightarrow \sqrt{1372} = 37 \quad \text{R: } 37 \frac{\text{m}}{\text{s}}$$