

Ejercicio nº 14 T1

Datos

$$m = 500g$$

$$v = 150 \frac{km}{h}$$

$$t = 30s$$

$$150 \frac{km}{h} \cdot \frac{1h}{3600s} \cdot \frac{1000m}{1km} = 41'66 \text{ m/s}$$

$$a) W = E_c = \frac{1}{2} m v^2 = \frac{1}{2} \cdot 0'5 \cdot (41'66)^2 = 434'027 \text{ J}$$

$$b) P = \frac{W}{t} = \frac{434'027}{30} = 14'46 \text{ W}$$