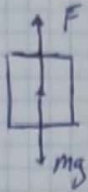


## 02 WE POTENCIA

(m)



$$F - mg = ma$$

$$F = m \cdot g = (520 + 470) \cdot 9.8$$

$$F = 7840 \text{ N} \rightarrow W = F \cdot r = 7840 \cdot 24 = 188160 \text{ J}$$

$$P = \frac{W}{t} = \frac{188160}{40} = 4704 \text{ W}$$

(n)

IDENTICAL

$$F = mg = 500 \cdot 9.8 = 4900 \text{ N} \rightarrow W = F \cdot r = 4900 \cdot 50 = 245000 \text{ J}$$

$$P = \frac{W}{t} = \frac{245000}{25} = 9800 \text{ W}$$

(o)

$$1 \text{ CV} = 745.7 \text{ W}$$

$$3 \text{ CV} = 2237.1 \text{ W}$$

$$V = 2.5 \text{ m/s} \Rightarrow a = \phi / \text{m/s}^2$$



CALCULO DE F

$$F - mg = \phi$$

$$F = mg = 9.8 \text{ m/s}^2$$

$$P = F \cdot V$$

$$2237.1 = 9.8 \text{ m/s}^2$$

$$m = 91.31 \text{ kg}$$

(p)

$$m = 1000 \text{ L} = 1000 \text{ kg}$$

$$P = \frac{W}{t} = \frac{588000}{60} = 9800 \text{ W}$$

$$W = F \cdot r \cos \theta = 9800 \cdot 60 = 588000 \text{ J}$$



$$F = mg$$

$$F = 1000 \cdot 9.8 = 9800 \text{ N}$$

(q)



$$F = mg = 500 \cdot 9.8 = 4900 \text{ N} \quad P = F \cdot V$$

$$P = 4900 \cdot 3 = 14700 \text{ W}$$

(r)

IGUAL QUE LOS ANTERIORES

$$F = mg = (437 + 1587) \cdot 9.8 = 19345.2 \text{ N}$$

$$W = F \cdot r = 19345.2 \cdot 24.6 = 475891.92 \text{ J}$$

$$P = \frac{W}{t} = 13596.912 \text{ W}$$