


$$6(2x+5) = 7x+8$$

$$12\cancel{x}+30 = \cancel{7x}+8$$


$$12x+30-7x=8$$

$$12x-7x=8-30$$

$$5x=-22$$

$$x = \frac{-22}{5} = -4.4$$

$$\cos x \mid \sin x$$
$$3(2x-5) = 8x+6$$

$$6x-15 = 8x+6$$

$$6x-8x = 15+6$$

$$-2x = 21$$

$$x = \frac{21}{-2} = -10,5$$

$$4x+7 = 2(5x+6)$$

$$4x+7 = 10x+12$$

$$4x-10x+7 = 12$$

$$4x-10x = 12-7$$

$$-6x = 5$$

$$x = \frac{5}{-6} = -0,8\bar{3}$$

$$V = I \cdot R$$

SI LA INTENSIDAD SON 100 A Y LA RESISTENCIA 2Ω ¿CUANTO VALE LA DIFERENCIA DE POTENCIAL?

$$V = 100 \cdot 2 = 200 \text{ V}$$

SI LA DIFERENCIA DE POTENCIAL SON 12 V Y LA RESISTENCIA 10Ω ¿CUANTO VALE LA INTENSIDAD?

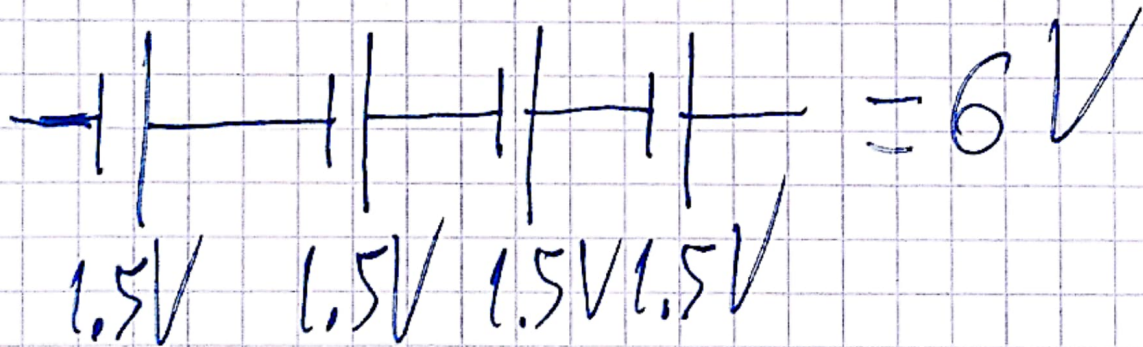
$$V = I \cdot R$$

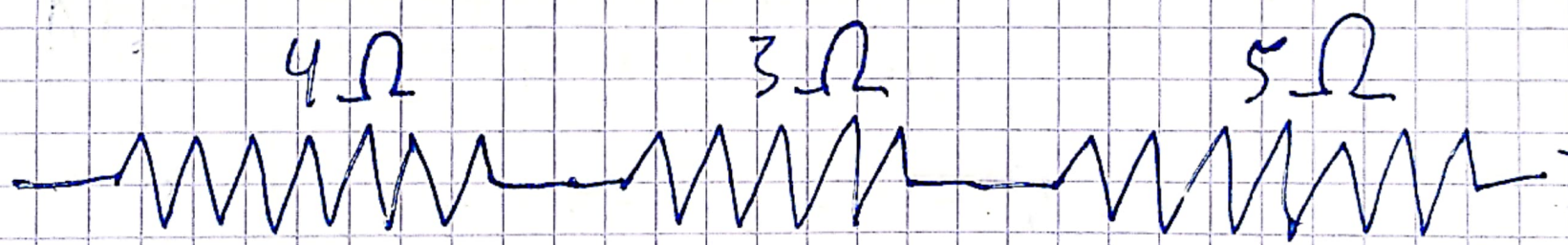
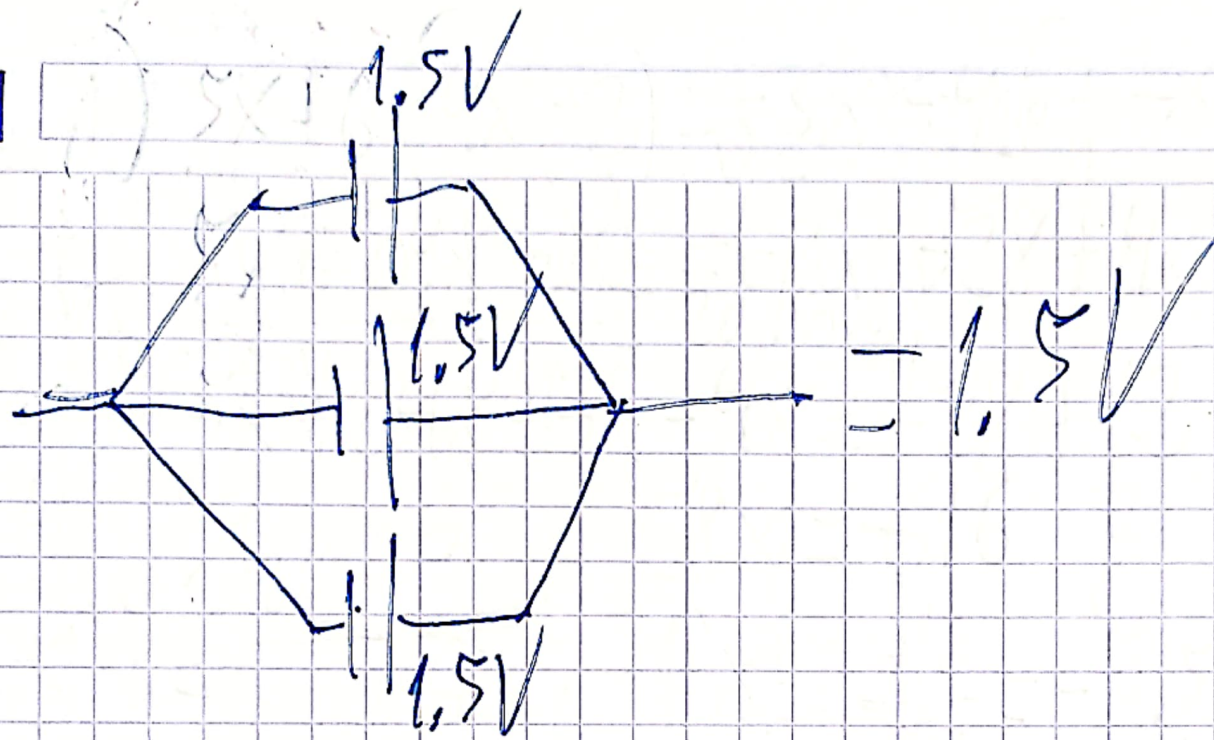
$$12 = I \cdot 10 \Rightarrow \frac{12}{10} = I \quad I = 1.2 \text{ A}$$

SI LA DIFERENCIA DE POTENCIAL SON
12 V Y LA INTENSIDAD 6 A ¿CUANTO
VALE LA RESISTENCIA?

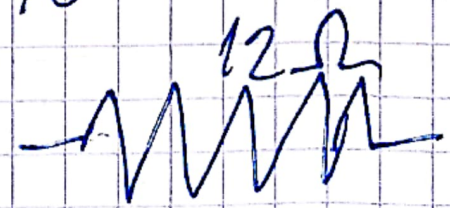
$$V = I \cdot R$$

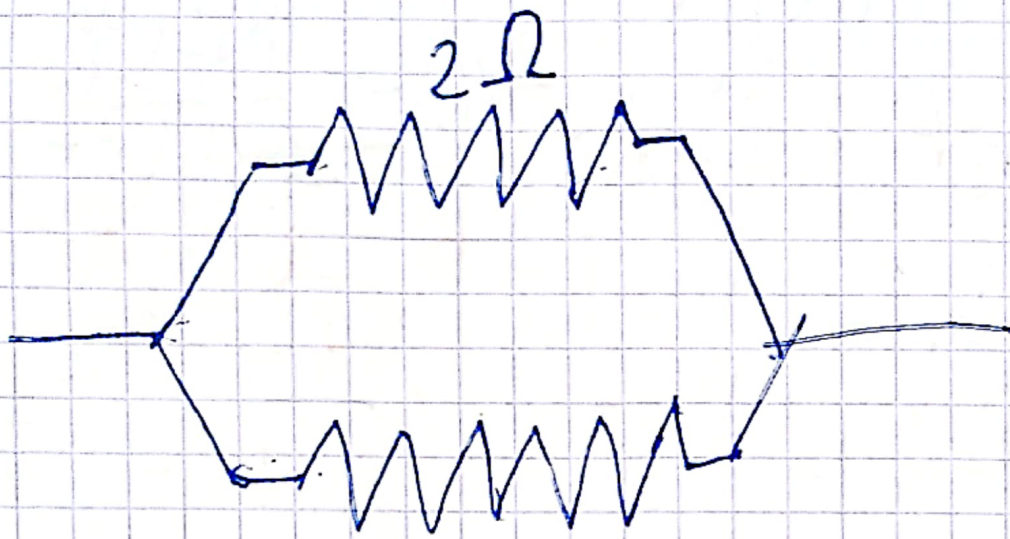
$$12 = 6 \cdot R \Rightarrow \frac{12}{6} = R \Rightarrow R = 2 \Omega$$





EN SÉRIE





$$\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}$$

$$\frac{1}{R} = \frac{1}{2} + \frac{1}{5}$$

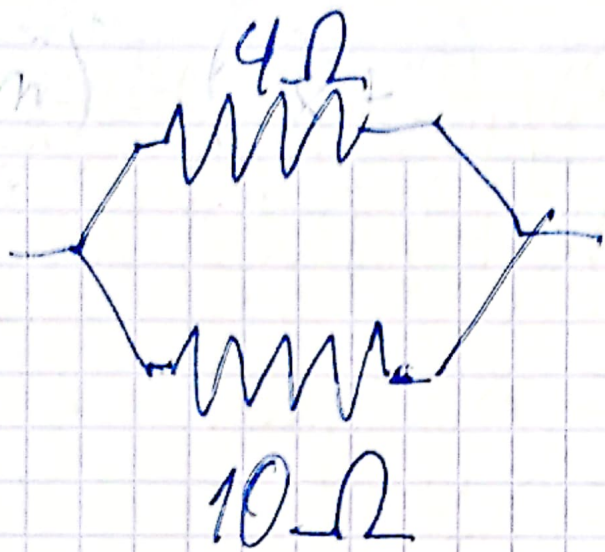
$$\frac{1}{R} = 0.5 + 0.2$$

$$\frac{1}{R} = 0.7$$

$$1 = 0.7 \cdot R$$

$$\frac{1}{0.7} = R$$

$$R = 1.43 \Omega$$



$$\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}$$

$$\frac{1}{R} = \frac{1}{4} + \frac{1}{10}$$

$$\frac{1}{R} = 0.25 + 0.1$$

$$\frac{1}{R} = 0.35$$

$$1 = 0.35 \cdot R$$

$$\frac{1}{0.35} = R$$

$$R = 2.86\ \Omega$$

Si un cuerpo tiene 50 kg de masa
¿Cuanto pesa?

$$\vec{g} = -9.8 \text{ N/kg}$$

$$\vec{P} = m \cdot \vec{g} = 50 \cdot (-9.8) = -490 \text{ N}$$

Si el peso de un objeto es de -1000 N
¿Cuál es su masa?

$$\vec{P} = m \cdot \vec{g}$$

$$-1000 = m \cdot (-9.8) \quad \frac{-1000}{-9.8} = m \quad m = 102.04 \text{ kg}$$

-1000 N
↓
FUERZA,
PESO

Si es peso de un objeto es
-750 N ¿cuál es su masa?

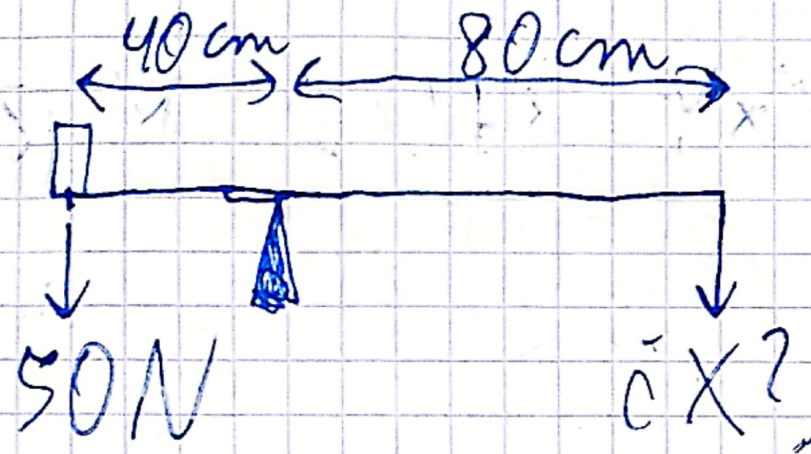
$$\vec{P} = m \cdot \vec{g}$$

$$g = -9.8 \text{ N/kg}$$

$$-750 = m \cdot (-9.8)$$

$$\frac{-750}{-9.8} = m$$

$$m = 76.53 \text{ kg}$$

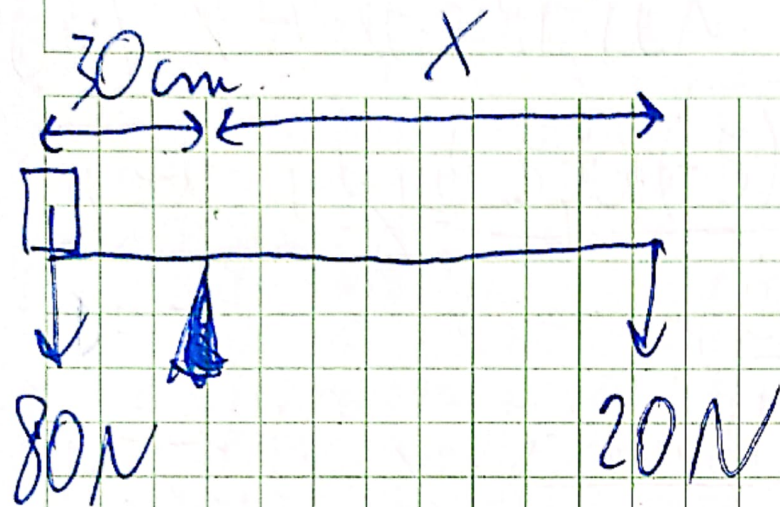


$$\text{POTENCIA} \cdot \left(\begin{array}{l} \text{BRAZO DE} \\ \text{POTENCIA} \end{array} \right) = \text{RESISTENCIA} \cdot \left(\begin{array}{l} \text{BRAZO DE} \\ \text{RESISTENCIA} \end{array} \right)$$

$$X \cdot 80 = 50 \cdot 40$$

$$X \cdot 80 = 2000$$

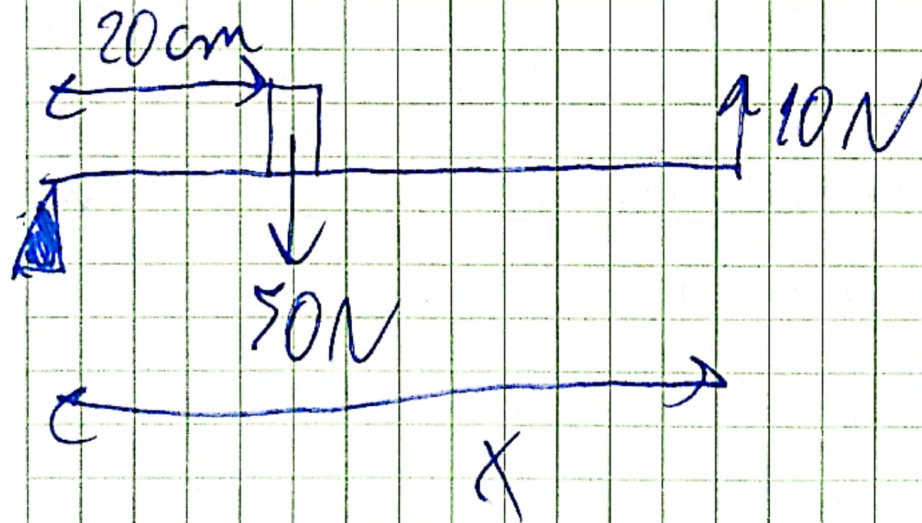
$$X = \frac{2000}{80} = 25 \text{ N}$$



$$P \cdot B_P = R \cdot B_R$$

$$20 \cdot X = 80 \cdot 30$$

$$X = \frac{80 \cdot 30}{20} = 120 \text{ cm}$$



$$P \cdot B_P = R \cdot B_R$$

$$50 \cdot 20 = 10 \cdot X$$

$$\frac{50 \cdot 20}{10} = X$$

$$X = 100 \text{ cm}$$