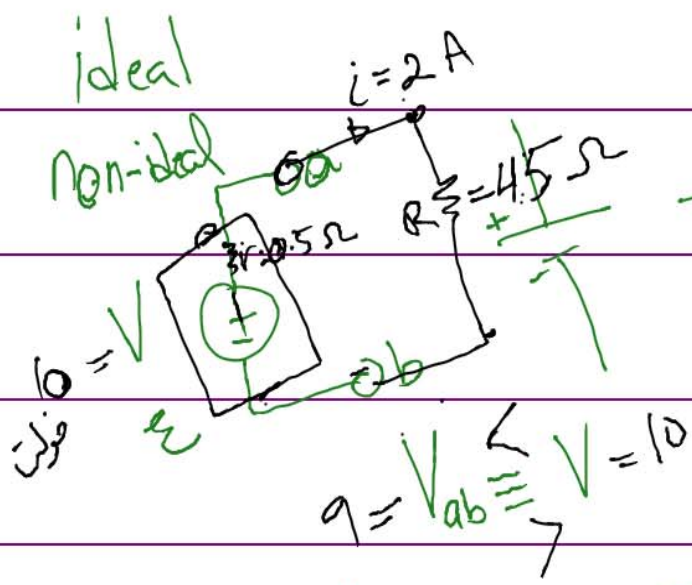


$$V = IR$$

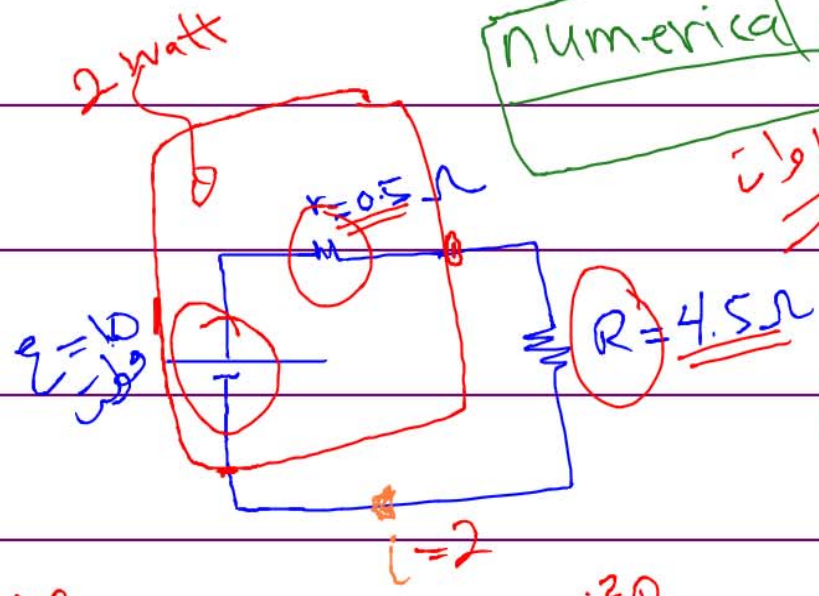
$$V = iR$$

$$10 = i \cdot 5$$

$$i = 2$$



numerical calculation



$\frac{P}{\epsilon} = \frac{i^2 r}{\epsilon}$

$$P = i \epsilon = 2 \times 10 = 20 \text{ Watt}$$

$$P = i^2 R$$

$$\frac{P}{\epsilon} = \frac{i^2 r}{\epsilon}$$

$$30 = \frac{i^2 \cdot 1}{10}$$

$$i = \sqrt{300}$$

$$\sqrt{100} = 10$$

$$\sqrt{0.1} = 0.1$$

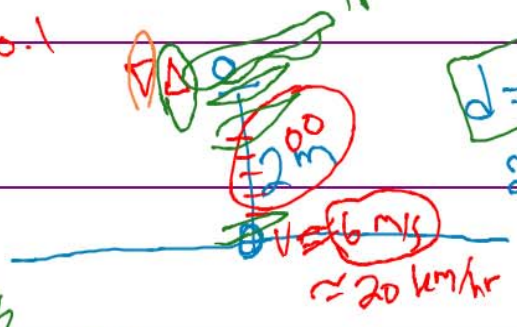
approximation

$$d = \frac{1}{2} g t^2$$

$$200 = \frac{1}{2} \cdot 10 t^2$$

$$t = \sqrt{40}$$

$$= \frac{0.63}{6.3}$$



60 m/s  
200 km/hr

$$t < 0.4 \checkmark$$

$$= 0.4 \times$$

$$> 0.4 \checkmark$$



$$PV = nRT$$



$$0.6 \times 0.6$$

$$\sqrt{0.36} = 0.6$$



