

29.5

Datos

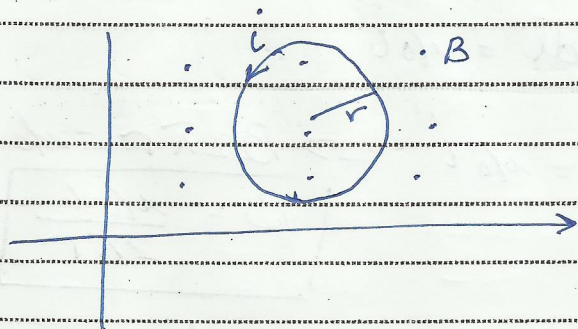
$$B = 1.5 \text{ T}$$

$$r = 12 \cdot 10^{-2} \text{ m}$$

$$t = 2 \cdot 10^{-3} \text{ s}$$

$$\mathcal{E}_i = - \frac{\Delta \Phi_B}{\Delta t} = \frac{\Phi_f - \Phi_i}{\Delta t} = \frac{0 - BA}{\Delta t}$$

$$\mathcal{E}_i = - \left(\frac{0 - (1.5)(\pi)(12 \cdot 10^{-2})^2}{2 \cdot 10^{-3}} \right) = 34 \text{ V}$$



29.10

Datos

$$B = 1.1 \text{ T}$$

$$A = 0.1 \text{ m}^2$$

$$\theta = 37^\circ$$

$$\Delta t = 0.06 \text{ s}$$

$$N = 80 \text{ espiras}$$

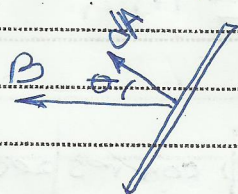
$$\mathcal{E}_i = - \frac{\Delta \Phi_B}{\Delta t}$$

$$\Phi_i = BA \cos \theta = (1.1)(0.1)(0.79)$$

$$\Phi_i = 0.08 \text{ Weber}$$

$$\Phi_f = BA \cos \theta = (1.1)(0.1)(0)$$

$$\Phi_f = 0$$



$$\mathcal{E}_i = - \frac{80(0 - 0.08)}{0.06} = 106 \text{ V}$$