Nama: Symen felt S. A NRO : 053 1194000 0003

heles: 55 hose: 2-3.1

$$\alpha. \quad \alpha = -L \frac{dl}{dl} = -N \frac{d\theta}{dl}$$

$$\therefore \quad L = \frac{N \theta}{1}$$

$$= \frac{150 \cdot 50 \cdot 10^{-9} \, \omega 6}{2 \cdot 10^{-3} \, A}$$

$$= 3,75 \cdot 10^{-3} \, H$$

= Ewax : 4,241 V

c.
$$\ell : -l \frac{df}{dt}$$

$$= -3.75 \cdot (0^{-3} \text{ H.} \frac{d}{dt} (3\cos(377t))_{\text{mA}}$$

$$= -3.75 \cdot (0^{-3} \text{ H.} 3 \cdot (-9 \text{ m.} (377t)) \cdot 377 \cdot (0^{-3} \text{ A})$$

$$= 4.241 \cdot 8ir(377t) \cdot (0^{-3} \text{ V})$$
Clarena Ewax; $sin(377t) = 1$