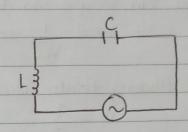
## PHÂN BAI TÂP

Phân a



Chu ky dao đóng:

dae dong:  

$$T = 2\pi - 2\pi = 5.40^{-4} (s)$$
  
 $W = 4000\pi$ 

Dien dung của tu:

$$w = \frac{1}{VLC} \Rightarrow C = \frac{1}{w^2L} = \frac{1}{(4000\pi)^2.1} = 6,33.10^{-9} (F)$$

Phường trình dong điện tức thời:

$$i = q' = -5.10^{-6}.4000\pi.\sin(4000\pi t)$$
  
= 0,02 \text{TL}.\cos(4000\text{TT} + \text{TL}) (A)

Nang lường điện từ trong mạch:  

$$W = \frac{1}{2} \cdot \frac{Q_0^2}{C} = \frac{1}{2} \cdot \frac{(4000\pi)^2}{6,33.40^{-9}}$$

$$= \frac{1 \cdot (5.10^{-6})^2}{2 \cdot 6,33.} \cdot 10^{-9} = 1.97.10^{-3} (J)$$

Cau 2:
$$C = 0.025 \mu F = 0.025.40^{-6} F$$

$$L = 1.045 H$$

$$q = 2.15.40^{-6} \cos wt (C)$$
a)  $Tan so gold can don dang:
$$w = \frac{1}{VLC} = \frac{1}{\sqrt{1.045.0.025.40^{-6}}} \approx 2000 \pi (rad/s)$$
Phuting trinh luieu dien the trên 2 ban tu:
$$u = \frac{q}{C} = \frac{2.5.40^{-6}}{C.025.40^{-6}} \cos (2000 \pi t)$$

$$= 100 \cos (2000 \pi t) (V)$$
Plusing trinh cuiang $\frac{1}{10}$ doing dien trong mach:
$$u = q' = -2.5.40^{-6}.2000 \pi. \sin (2000 \pi t)$$

$$= 5.40^{-3} \pi. \cos (2000 \pi t) (A)$$
b) Chu kỳ dao đáng:
$$T = \frac{2\pi}{g} = \frac{2\pi}{g} = 40^{-3} (s)$$

$$Tai t = \frac{T}{g} = \frac{10^{-3}}{g}(s)$$

$$\left( u = 100 \cos (2000 \pi. \frac{40^{-3}}{g}) = 50 \text{VZ}(V)$$

$$i = 5.40^{-3} \pi \cos (2000 \pi. \frac{40^{-3}}{g}) = 0 (V)$$

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$$i = 5.40^{-3} \pi \cos (2000 \pi. \frac{40^{-3}}{g}) = -0.016(A)$$

$$Tai t = \frac{T}{2} = \frac{40^{-3}}{2}(s)$$

$$\int u = 400 \cos (2000 \pi. \frac{40^{-3}}{g}) = -400(V)$$

$$i = 0(A)$$$ 

Cause 
$$C = 0.025 \, \mu F = 0.025 \, .40^{-6} \, F$$
 $L = 1.045 \, H$ 
 $Q = 2.5 \, .40^{-6} \, cos \, wt$  (c)

Ap clung lai Ket qua cau 2

Ca) Philong truth mang luong atien truong:

 $We = \frac{1}{2} \cdot \frac{Q^2}{C} = \frac{1}{2} \cdot (2.5.40^{-6})^2 \cos^2(2000\pi t)$ 
 $= 1.025 \cdot .40^{-4} \cos^2(2000\pi t)$  (J)

Phuring truth mang luong 4 it truong:

 $W_m = \frac{1}{2} \, Li^2 = \frac{1}{2} \cdot .4.015 \cdot (5 \cdot .40^{-3} \, \pi) \cos^2(2000\pi t + \frac{\pi}{2})$ 
 $= 1.25 \cdot .40^{-4} \sin^2(2000\pi t)$  (J)

Nang luong duen two  $W_m = 1.25 \cdot .40^{-4} \cos^2(2000\pi t)$ 
 $= 1.25 \cdot .40^{-4} \sin^2(2000\pi t)$ 
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 $= 1.25 \cdot .40^{-4} \cdot (1)$ 

b) Tai  $t = T$ :

 $W_m = 6.25 \cdot .40^{-5} \cdot (1)$ 
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Câu 5:

$$C = 7 \mu F = 7.10^{-6} F$$

$$L = 0,23H$$

$$R = 40 \Omega$$

$$Q_0 = 5,6.10^{-4} C$$

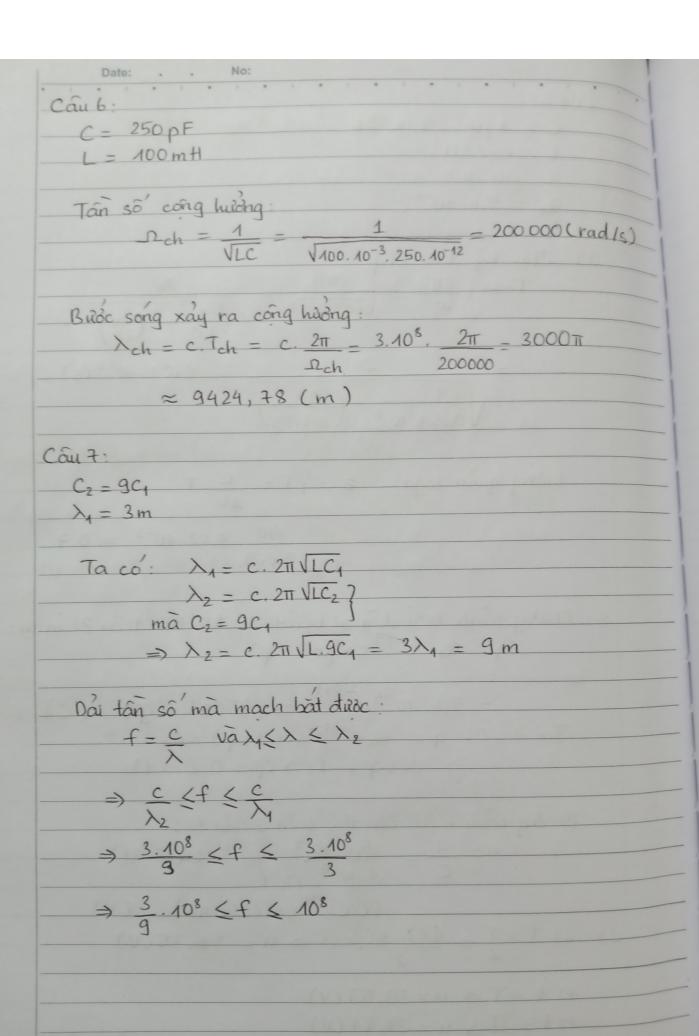
a) Chu kỹ dao đơng:
$$T = \frac{2\pi}{w} = \frac{2\pi}{\sqrt{wc^2 - \beta^2}} = \frac{2\pi}{\sqrt{LC}} = \frac{2\pi}{(2L)^2}$$

$$= \frac{2\pi}{\sqrt{0.23.7.10^{-6}}} = \frac{40}{2.0,23}^2$$

$$Lường giảm loga:  $5 = \beta T = \frac{R}{2.T}$ 

$$= \frac{40}{2.0,23} \cdot 8,02.10^{-3} = 0,7$$

$$= \frac{40}{2.0,23} \cdot 8,02.10^{-3} =$$$$



Câu 8:
$$f = 200 \text{ Hz}$$

$$u = 15 \text{ m/s}$$

$$v = 340 \text{ m/s}$$

$$V = 340 \text{ m/s}$$

$$V = 400 \text{ m/s}$$

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$$V = 400 \text{ m/s}$$

$$V = 340 \text{ m/s}$$

$$V = 400 \text{ m/s}$$

$$V = 4$$