CSE 250 FINAL ASSIGNMENT

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SECTION: 06

SUDMISSION DATE!

01/01/2023



CSERBO FINAL ASSIGNMENT

(1) (1) I 2 2 CO3 (wt + 100)
$$\rightarrow$$
 2 $<$ 100 Co3 (wt - 100-905) $=$ 3 co3 (wt - 100°) \rightarrow 3 $<$ 100° Dhase difference $=$ 10 - (-100) $=$ 110° $=$ 13 leading $=$ $=$ $=$ 1.

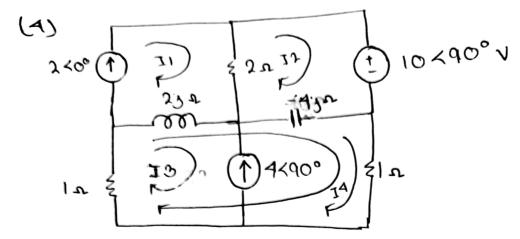
(ii)
$$I = 16 \cos(ux + 109) \rightarrow 16 \times 10^{\circ}$$
 $V = -20 \sin(ux - 109) = 20 \cos(ux - 10^{\circ} + 180^{\circ} - 90^{\circ})$
 $= 20 \cos(ux + 809) \rightarrow 20 \times 80^{\circ}$

Phase difference $= 80^{\circ} - 10^{\circ} = 70^{\circ}$
 $= 70^{\circ}$
 $= 70^{\circ}$
 $= 70^{\circ}$
 $= 70^{\circ}$

Water and the

$$V_{B} = \frac{200}{17} - \frac{900}{17} = \times 12 \times 0^{\circ} + \frac{200}{17} - \frac{900}{17} = \times 12 \times 0^{\circ}$$

KCL at V,



II = 2 < 00 A

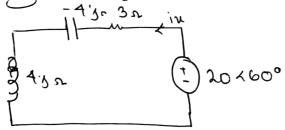
KVL at 100p 3 and 4

KVL at 100p 2

KCL at supermesh

2-1 2-6

onle 2000s(2++600) Vis active



$$|x = 1|x + 1|x = 13.883 < 780^{\circ} + 6.6667 < 60^{\circ}$$

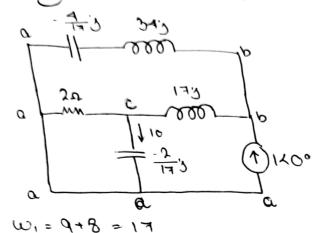
= 9.276×-62.48
= 29.276×-62.48

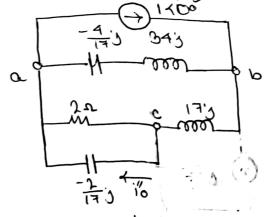
$$0.28f = \frac{1}{(0.26)(2)3} = -23$$

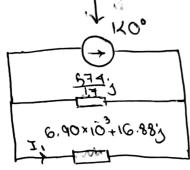
$$0.5f = \frac{1}{(0.6)(2)3} = -3$$

$$1H = (1)(2)3 = 23$$

Drive cosista is active

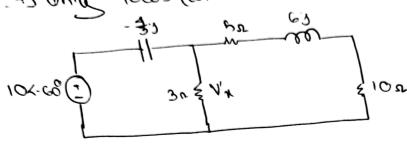




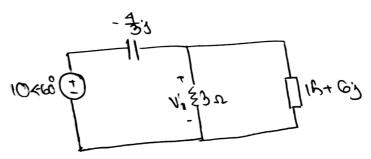


$$I_{i} = \frac{6.90 \times 10^{3} + 16.88 \cdot 11^{\frac{6.774}{17}}}{6.90 \times 10^{3} + 16.88 \cdot 10.88 \cdot 10} \times 10^{9}$$

3) Only 10003 (10, t-60°) V source is active



$$0.39t = \frac{(0.39)(3).3}{1} = -\frac{3}{4}.3$$



$$N'_{N} = \frac{61}{30} + \frac{3}{20} \cdot 5 \times 10 \leftarrow 60^{\circ}$$

$$\left(\frac{61}{30} + \frac{3}{20} \cdot 5\right) + \left(\frac{4}{3} \cdot 5\right)$$

