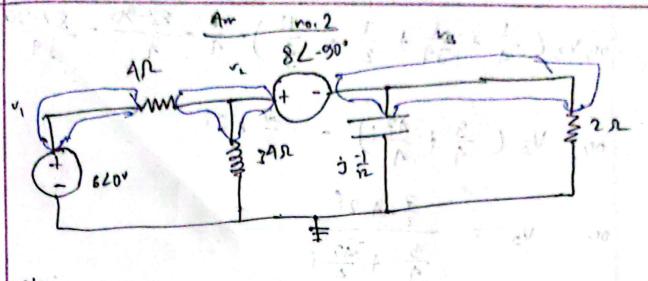
no. 1 Am Here, 6 cos (24) V= 6 40° 8 sin(2t) v = 6 8 L-90° 2H= j. ω.L = j×2×2 23AS 01 82-90. 492 £ 2/L 334R 640'



Supernode;

$$V_2(\frac{1}{A} + \frac{1}{3A}) - \frac{V_1}{4} + \frac{1}{2}) = 0$$

$$6r_1 \sqrt{V_2(\frac{1}{4} + \frac{1}{j4})} + V_3(\frac{1}{2} + \frac{12}{3}) = \frac{6}{4}$$

on,
$$\sqrt{3} \left(\frac{1}{4} + \frac{1}{54} + \frac{1}{2} - \frac{12}{5} \right) = \frac{6}{4} - \frac{82-90}{1} - \frac{81-90}{34}$$

on
$$V_3 = \frac{\frac{7}{2} \cdot 42i}{\frac{3}{4} + \frac{47}{4}i}$$

1) NI 00-18

1 50 1/2 3V ..

no. A Am

$$V_1 - 0 = i_{\chi} \times \frac{2}{8}$$

 $V_1 - 0 = \frac{1_{\chi} \times 2}{8.287 L - 89.697}$
or, $i_{\chi} = \frac{3.287 L - 89.697}{j_{\chi}}$

$$= 2.07175 L - 178.697$$

$$: let = 2.07175 cos (2t - 178.697)$$

$$l_{ct} = 2.07145 cos (A--)$$