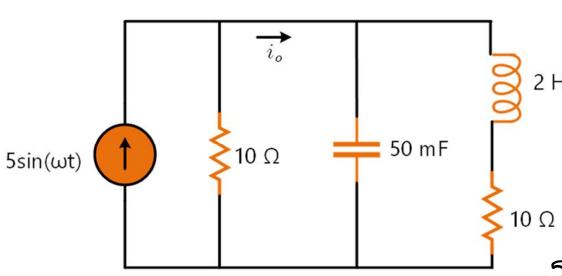
$$3\cos(901.10^{\circ}) \rightarrow 3\frac{10^{\circ}}{3\cos(901.30)} \rightarrow 5\frac{130^{\circ}}{3\cos(901.30)} \rightarrow 5\frac{130^{\circ}}{3\cos(901.30)} \rightarrow 5\frac{130^{\circ}}{3\cos(901.30)} = \frac{2.9541.30590}{305909} - \frac{4.33+325}{332} = -1.376 + 3.029 = 3.32\frac{11.4.5^{\circ}}{332} = -3.32\frac{11.4.5^{\circ}}{30590} = 3.32\frac{11.4.5^{\circ}}{30590} = 3.32\frac{11.4.5^{\circ}}{30590} = 3.32\frac{11.4.5^{\circ}}{30590} = -3.30\frac{11.4.5^{\circ}}{30590} = -3.30\frac{11.4.5^{\circ}}{3$$



$$T = \frac{V}{Ze_9} = \frac{115^{10}}{98.95^{12}61} = 3.972^{114} A$$



$$J_{n} = I \frac{Z_{1}}{Z_{1} + Z_{2}} \qquad Z_{1} = 20 \Omega$$

$$Z_{2} = 0 \left(50 \text{mF} \right) \left(10 \Omega + 2 H \right)$$

c) of
$$w=10$$
 rabisec
 $50\text{mF} - v - J2$ $2H -> J20$
 $2 = (-J2) | 1(10+J20) = 0.094 - J2.1698 \ \Omega$
 $= 2.17 \frac{(-87.510)}{\Omega}$

$$50\text{mF} \rightarrow \frac{1}{3.005} = -320\Omega$$
 $2H \rightarrow 321 = 32\Omega$
 $2g = -32011(10+39) = 9.430 - 33.018$
 $= 9.9 \frac{17.75^{\circ}}{10}$
 $= 9.9 \frac{17.75^{\circ}}{10}$
 $= 9.9 \frac{18.83}{10}$
 $= 9.542 \frac{18.83}{10}$
 $= 9.542 \sin(4.18.83^{\circ})$ A



$$20 \text{ mH} - 0 \text{ J} \cdot 10^{3} \cdot 20 \cdot 10^{3}$$

$$- \text{J} \cdot 20 \cdot \Omega$$

$$19.5 \text{ pF} - 0 \frac{1}{\text{J} \cdot 10^{3} \cdot 12.5 \cdot 10^{-6}} = -380 \, \Omega$$

$$Z_{in} = 60 + (J20)(60-J80) = 60 + \frac{(J20)(60-J80)}{60-J60} = 6333+J23.33 \Omega$$

= 67.49 \(\frac{120}{50.22}\)

6ο Ω

$$\frac{1}{2in} = \frac{1}{2in} = 14.8 \frac{1-90.22}{ms}$$



$$W = 10^3 \text{ rad/sec}$$

$$Z_{in}$$
 20 uF $A0 \Omega$ $A0 \Omega$

$$Z_{in} = -J_{50} + (90||40+J_{10}) = -J_{50} + \frac{90(40+J_{10})}{60+J_{10}} =$$

$$= 13.5 - J_{48.99} = 50.75 \frac{2-74.56}{2}$$

$$V_{in} = \frac{1}{2in} = 19.7 L^{74.56}$$
 ms

