$$= 0.375 - 50.125 (S)$$

$$\frac{2}{7} = \frac{1}{7} = 1.4 + 50.8 (52)$$

$$\frac{2}{46} = -j12.8 + 15.8 + 2.4 + j0.8$$

$$= 16 - j12 (51)$$

$$= \frac{1}{4ab} = \frac{1}{2ab} = \frac{$$

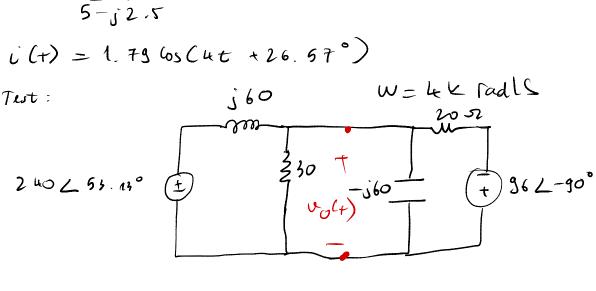
$$\frac{2}{j} = \frac{1}{j} = -j2.5 (52)$$

$$0 = 10 \times \frac{-j2.5}{5 - j2.5} = 2 - j4 = 4.47 \angle -63.46^{\circ}$$

$$0(+) = 4.43 (65 (4t - 65.46^{\circ}))$$

$$i = \frac{10}{5 - j2.5} = 1.73 (26.57^{\circ})$$

$$i(t) = 1.73 (65 (4t + 26.57^{\circ}))$$



42 46.87° (1) \$ 12 52 6236 87° × 12 = 48236.670

=> 20(+) = kg (os (kooo + 46.87°)

$$w = 50^{1/2} \text{ rad ls}$$
 $10 \ge 0$
 $10 \ge 0$

V = 40 - 130 = 31.622 - 71.57

$$\frac{-w_0 2^{-30}}{20} + \frac{v}{35} + \frac{v}{-3w} + \frac{v}{3} = 10$$

$$\frac{V - w_0 \angle -g_0^{\circ}}{20} + \frac{v}{j_5} + \frac{v}{-j_{10}} + \frac{v}{-j_{10}} = 10$$

$$(3) V \left(\frac{1}{20} + \frac{1}{j_5} + \frac{j_9}{20} + \frac{1}{5}\right) = 10$$

vC+) = 31.62 Cos C50000 t -71.67°)

 $=> V \left(\frac{1}{4} + \frac{1}{16}\right) = 10 - 17$

$$.8 = I_a(l+j2) + (I_a-I_b)(l+j2)$$

hoop 25 0=(4-j5)(I6-Ia) + 2(I6-Ic) e) 0=(4-j5)(I6-Ia) + 2(I6-j1.675(Ia-Ib)]

$$\begin{array}{l}
 o = (4-j5)(Ib-Ia) + 2(Ib-Ic) \\
 o = (4-j5)(Ib-Ia) + 2((Ib-Ja)) \\
 & = 29+52
\end{array}$$

$$V(t) = 60 \cos(100 \, \text{Rt}) \, \text{CV})$$

$$W = 2 \text{Ref} \rightarrow f = 50 \, \text{Hz}$$

$$C = 1.8 \, \mu \, \text{F} \rightarrow 2c = \frac{1}{1.8 + 1$$

=
$$1.8 \mu F \rightarrow 2c = \frac{1}{1.8 \times 1.8 \times$$

$$= 1.8 \mu F \rightarrow 2c = \frac{1}{100 (E \times 1.8 \times 10^{-6})}$$

$$= -j.1768.39$$

= 0.037 L 82.92°

 $Q_2: \frac{v - 40}{34} = 0$

 $b) z_m = z_{ab}$

 $(\frac{1}{4} + \frac{1}{4}) = -ib$

2) V = 2052 L-450

Zab = C-52) 11(4+54)

 $= 2.59 \angle -71.56$

$$2\pi f \rightarrow f = 50 \text{ HZ}$$

$$8 \mu F \rightarrow 2c = \frac{1}{100}$$

60 L O 200 + j 50 TC - j 1768-39