$$\bigcup$$

$$Z_{C} = -j \frac{1}{\omega C} = -j \frac{1}{2\pi.50 \cdot 100 \cdot 10^{-9}} = -j \frac{10^{9}}{\pi \cdot 10^{9}} = -j \frac{10^{9}}{\pi \cdot$$

$$V = 2hV \angle 0^{\circ}$$

$$Z_{+o+} = 105K \neq (-17^{\circ}...)$$

$$34.8 \, \text{K}$$
 $\frac{100}{-31}$
 $\frac{1}{4} \, \text{d} \, \text{$

$$\vec{l} = \frac{\vec{V}}{Z} = \frac{24v + 0^{\circ}}{105k + (-12^{\circ})} = \left(\frac{24v}{105k + 2}\right) + \left(\frac{0^{\circ} - (-12^{\circ})}{105k + 2}\right) = 0$$

$$= 0.23 \text{ mA} + 12^{\circ}$$

$$-\vec{V}c = \vec{l} \cdot Z_{c} \sim 2+jb = 0 - j 34.8k$$

$$\vec{V}e = \vec{l} \cdot Z_{c}$$

$$\frac{1}{100} = \left[0_{123} + 4 + 13^{\circ}\right] \cdot \left[31.8 + 4 - 90^{\circ}\right] = \left(0_{123} \cdot 31.8 + 4 + 13^{\circ}\right) = 7.31 \times 4 - 73^{\circ}$$

$$= 7.31 \times 4 - 73^{\circ}$$