2.00 5.205 p.)

1202 100x 1 Voc

1202 p.) 100x 1 Voc

2005 p.)

(2)

$$\vec{I} = 18 \ L - 126.87^{\circ}$$

$$\vec{V}_{X} = 100 - 180 \ L - 126.87^{\circ} = 208 + \frac{144}{144}$$

$$V_{0c} = 10\vec{V}_{X} + 120\vec{I} = 835.22 \ L - 20.17^{\circ}$$

$$\frac{20q}{5} \quad 5^{1c} \quad 123u 5$$

$$\frac{123u 5}{120u} \quad 5^{1c} \quad 120u \quad 120$$

$$\frac{123u 5}{120u} \quad 5^{1c} \quad 120$$

$$\frac{125u}{120u} \quad 120$$

$$\frac{125u}{120u}$$

= Since ein: 10 Ja - + 40 Ja - (Ib - Ja). 120 - 10 Vx = 0 Ju. sin: 101x + ([b-]a)120 -V+ =0

Vx = 10. J~

 $\frac{\sim}{1_{b}} = \frac{\sim}{1_{\tau}} = \frac{V_{+}(3-4)}{120 - 1480}$ \Rightarrow $2_{TH} = \frac{\sqrt{T}}{T} = 91.2 - j38.4$

(3)

(221, GUNT U12, 1,510:

kul :
$$150 - (1+2j)\vec{J}_1 - (12-j16)(\vec{J}_1 - \vec{L}_2) = 0$$

$$|\xi_{1}|^{2}$$
: $(|\xi_{1}|^{2}) - (|\xi_{1}|^{2}) - (|\xi_{1}|^{2})$

$$\vec{J}_{1} = -26 - \frac{1}{3}52$$

$$\vec{J}_{2} = -24 - \frac{1}{3}58$$

$$\vec{J}_{3} = -2 + \frac{1}{3}6$$

$$\nabla_{4} = \vec{I}_{A} (1 + 2j) = 78 - j \cdot 104$$

$$\nabla_{5} = \vec{I}_{2} (1 + 3j) = 150 - j \cdot 130$$

& 42 OSCIURIUM SIL 123NS 3 : Sigen 2'000

$$Y_{eq} = Y_1 + Y_2 = \frac{1}{R_{ex}} + \frac{1}{3} 2 C_2 = \frac{1}{R_{ex}}$$

Zegg =
$$\frac{1}{\text{Yegg}} = \frac{R_2}{1 + j W R_2 C_2}$$

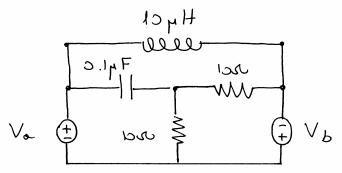
¿ 21,25 = 5.00%

$$\frac{2 \log x}{1 + j w R_2 C_2} = \frac{R_2 (1 - j w R_2 C_2)}{(1 - j w R_2 C_2) (1 - j w R_2 C_2)} = \frac{R_2}{1 + w^2 R_2^2 C_2^2} - j w \frac{R_2^2 C_2}{1 + w^2 R_2^2 C_2^2}$$

$$R_1 = \frac{R_2}{1 + \omega^2 R_2^2 C_2^2}$$

$$R_2 = \frac{R_2}{1 + \omega^2 R_2^2 C_2^2}$$

$$\frac{1}{\sqrt{wc_{1}}} = -\frac{1}{\sqrt{w}} \frac{R_{2}^{2} c_{2}}{\sqrt{1 + w^{2} R_{2} c_{2}}} = -\frac{1}{\sqrt{w}} \frac{R_{2}^{2} c_{2}}{\sqrt{1 + w^{2} R_{2} c_{2}}} = -\frac{1}{\sqrt{w}} \frac{1 + w^{2} R_{2}^{2} c_{2}}{\sqrt{w^{2} R_{2}^{2} c_{2}}}$$



1/5/5 : 50 L-90°-(1-12) - 10 (i,-i2) = 0

: 6,5100 B KNJ 13=2

15ns: 10(i1-is) - 10(i2-i3) + 25 7 200=0

 \oplus

$$\frac{1020^{\circ} + 40^{\circ}}{1020^{\circ}} = \frac{103^{\circ}}{100^{\circ}} = \frac{103^{\circ}$$