

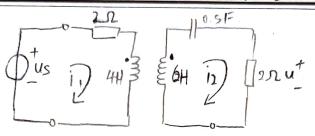
作业纸

课程名称:_

班级:

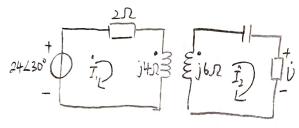
教学班级:

姓名: **曾加睫** 学号: |82022|053 第



 $(2+j+)\dot{I}_{1} - j2\dot{I}_{2} = 24 \angle 30^{\circ}$ $(3+j+)\dot{I}_{1} - j2\dot{I}_{2} = 24 \angle 30^{\circ}$ $(3+j+)\dot{I}_{1} - j2\dot{I}_{2} = 24 \angle 30^{\circ}$ $(1+j2)\dot{T}_{1} - \dot{T}_{2} = 0$ (1+j2) 1, -j1, = 12 230°

Us = 24 cos(t+30°) V



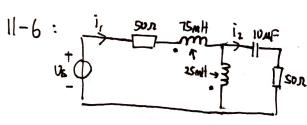
$$\dot{U} = 2I_2$$

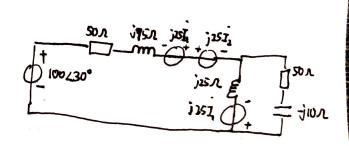
= 5.36 \(\alpha\) \(\alpha\) \(\delta\)

$$I_{2} = \frac{12 \angle 120^{\circ}}{-2 + j4}$$

$$= \frac{12 \angle 120^{\circ}}{447 \angle 116.6^{\circ}}$$

$$= 2.68 \angle 3.4^{\circ}$$





Us(t) = 100 cos(102t + 300)

 $(50+j75+j25)I_1-j25I_2-j25I_3+j25I_3-j25I_4=100 \angle 30^\circ$ $j^{25}\vec{I_1} + (50+j^{25}-j^{100})\vec{I_2} + j^{25}\vec{I_1} = 0$

$$(50+j50)\dot{I}_{1} = 100 \angle 300$$

 $(50-j75)\dot{I}_{2} = 0$

= 12 48/14-1CO

联系方式:-

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$$(2+j4)\vec{I}_{1} - j2\vec{I}_{2} = 12L0^{\circ} \rightarrow -j2\vec{I}_{1} + (2+j2)\vec{I}_{2} = 0$$

$$(1+j2)\vec{I}_{1} - j\vec{I}_{2} = 6L0^{\circ} \rightarrow -j\vec{I}_{1} + (1+j)\vec{I}_{2} = 0$$

$$\vec{I}_{1} = \frac{1+j}{j}\vec{I}_{2} = (1-j)\vec{I}_{2} = (1-j)\times 2 = 2-j2$$

$$(1+j2)(1-j)\vec{I}_{2} = 7\vec{I}_{2} = 6$$

$$Z_{i} = \frac{12\angle 0^{\circ}}{2-j2}$$
$$= \frac{12(2+j2)}{8}$$
$$= 3+j3 \Omega$$

$$\vec{J}_1 = 6$$

$$\dot{J}_1 = 2$$

$$||-|3:$$

$$\dot{v} = \frac{1}{2\pi}$$

$$\dot{J}_{0} = \frac{\dot{V}}{2}$$
 $\dot{V}_{0} = J_{0}Z_{0}$
 $\dot{V}_{0} = J_{0$

$$\dot{0} = 10 \, \angle 0^{\circ}$$

$$\dot{0}_{1} = \frac{\dot{0}_{2}}{2} \qquad \dot{0}_{3} = 5 - \mathbf{j} \, \mathbf{S} + 2\mathbf{I}_{1}$$

$$= 5 - \mathbf{j} \, \mathbf{S} \qquad = 5 - \mathbf{j} \, \mathbf{S} + 2 \times 2 \times \mathbf{S}$$

$$= 25 - \mathbf{j} \, \mathbf{S}$$

$$= 25 - \mathbf{j} \, \mathbf{S}$$

$$= (25.5 \, \angle -11.31^{\circ})$$

$$\dot{U}_{3} = \dot{U} + \dot{V}_{c}$$
= (10-\text{j10})

 $us(t) = 25.555 \omega s(wt - [1.3]^{0}) V$

联系方式:_

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电话: 81382088



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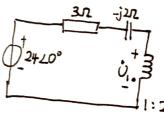
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11-16:



$$\frac{Z_{1}}{Z_{2}} = \left(\frac{N_{1}}{N_{2}}\right)^{2}$$
$$= \frac{1}{4}$$

$$\dot{U}_{oc} = (-2 \times 24 \times 20^{\circ})$$

= -48 \times V

$$2_{2} = [(3-j_{2})_{x}_{x}_{4}]$$

= $12 - j_{8} N_{2}$

$$I_{2} = \frac{-48 + 12}{12 - j8 + 4} = \frac{-36}{16 - j8} = \frac{-36}{17.892 - 26.56} = -2.61 \angle 26.56^{\circ} A$$

$$2' = \frac{\omega^{2}M^{2}}{lvv + j + 000}$$
$$= \frac{10^{6}}{lvv + j + 000}$$
$$= (6.25 - j + 249.8) D$$

$$Z = (10+6.25 - j249.8 + j1000 - j\frac{1}{\omega c})$$

$$1000 = \frac{1}{1000c} + 249.8$$

$$C = \frac{10^{-3}}{750 \cdot 1} = 1.33 \, \mu F$$