(科目:

清华大学数学作业纸



编号: H12

班级:

姓名:

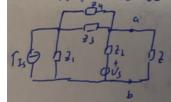
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5-2. 247 U=220 52 sin (1000 t+ 1)V, N=10 sin (1000 t- 1)A. U=Um (1)以对相位差 (3)相景图 (1). 以,礼相量表达式 09= 1-(-1) il = Upstu = 220e #j = 5 1 i = i p 1 4 i = 552 e - 6 j A

5-7 抗海阻抗, 是,=2+j3九, 是,=50-j20九, 是,=j5.9九 $\frac{2}{2} = (2,112,1) + 2,$ $\frac{2}{2} = (2,112,1) + 2,$ = 2.6449.08jn = -95jn

5-35. Is=1630"A, Us=50 6-60" V., 2,=201, 2=15-j101, 23=5+j71, 24=-j201 tiabildta上多大图抗到于有 Imax, Imax为?



Z311Z4 = 1031+68; 1. Zeg, =2, +23/124+22 = 45.31-3.20j.2. I = 15 2, +us = 0.98 -0.67 A u = 2, I+u, = 33.06-63.19 √ 当是《三3.25几时,电流混文 Imay = 33.06-63.10 = 1.57A

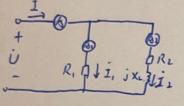
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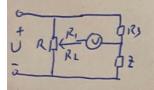
$$\cos \theta = -\frac{3^{2} + 4.5^{2} - 6^{2}}{2 \times 3 \times 4.5} = \frac{1}{4}$$

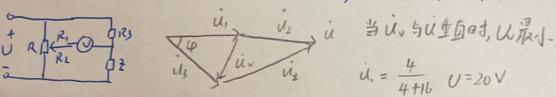
$$\cos \theta = \frac{3^{2} + 6^{2} - 4.5^{2}}{12 \times 3 \times 4.5} = \frac{1}{4}$$

$$\frac{1}{4} = \frac{3^{2} + 4.5^{2} - C^{2}}{2 \times 3 \times 4.5} = \frac{1}{4} \quad i = 90 \times 104.5^{\circ} \text{A}$$

$$\frac{1}{4} = \frac{4.5 \times 104.5^{\circ} \text{A}}{104.5^{\circ} \times 104.5^{\circ} \times$$

5-3). U=100 V, R3=65九,可调声阻器尺在尺,=4九, R2=16九, 30 V, 求圣,





$$\dot{U}_{1} = \frac{4}{4 + 16} \quad U = 20 \, \text{V}$$

$$\begin{cases} \frac{d^2}{u_R + u_3} = \tan \varphi = 1.5. & t \cos \varphi = \frac{u_v}{u_1} = 1.5. & u_R \end{cases}$$

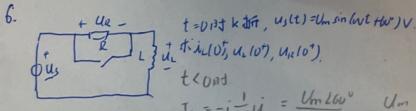
$$U_{3} = 36.06 \text{V}$$

$$U_{1} = 19.41 \text{V}.$$

$$U_{1} = 83.20 \text{V}.$$

$$10 = 19.41 \text{V}.$$

$$\frac{12}{6.5} = \frac{U_R}{u_s} = 0538.$$



$$= \frac{RUm}{2wL} + \frac{J_3}{2wL} + \frac{J_3}{2wL}$$

$$= \frac{Um(\frac{R}{2wL} + \frac{J_3}{2wL})}{2wL}$$