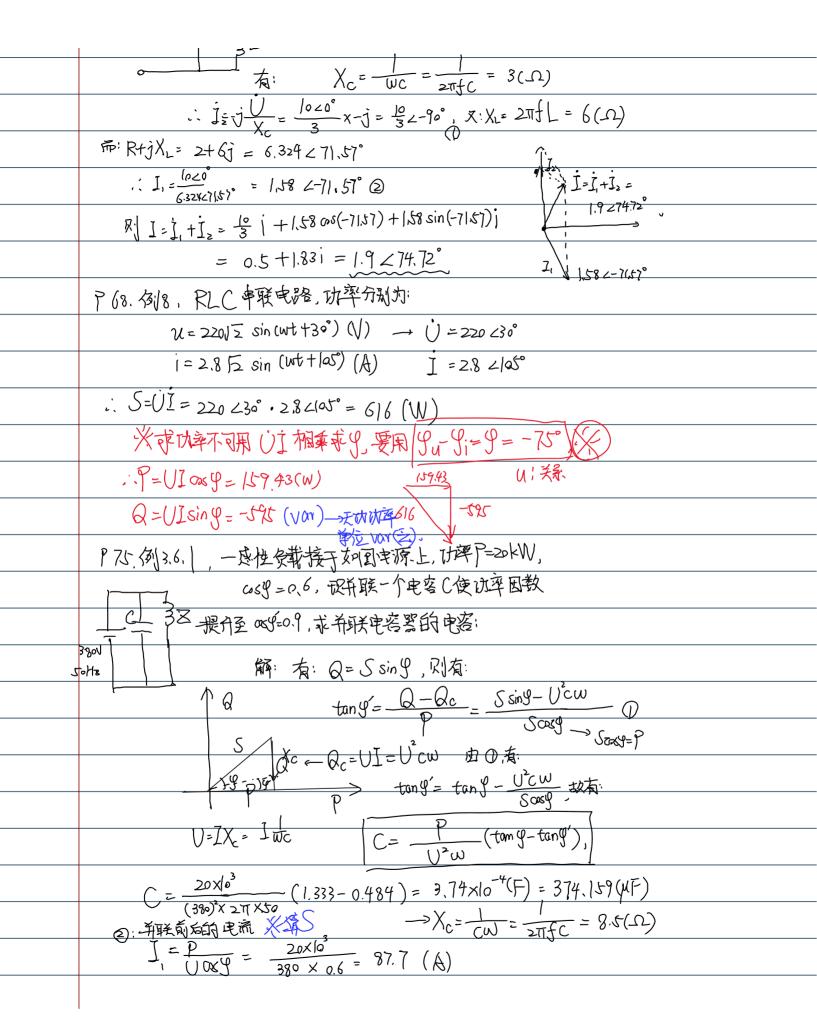
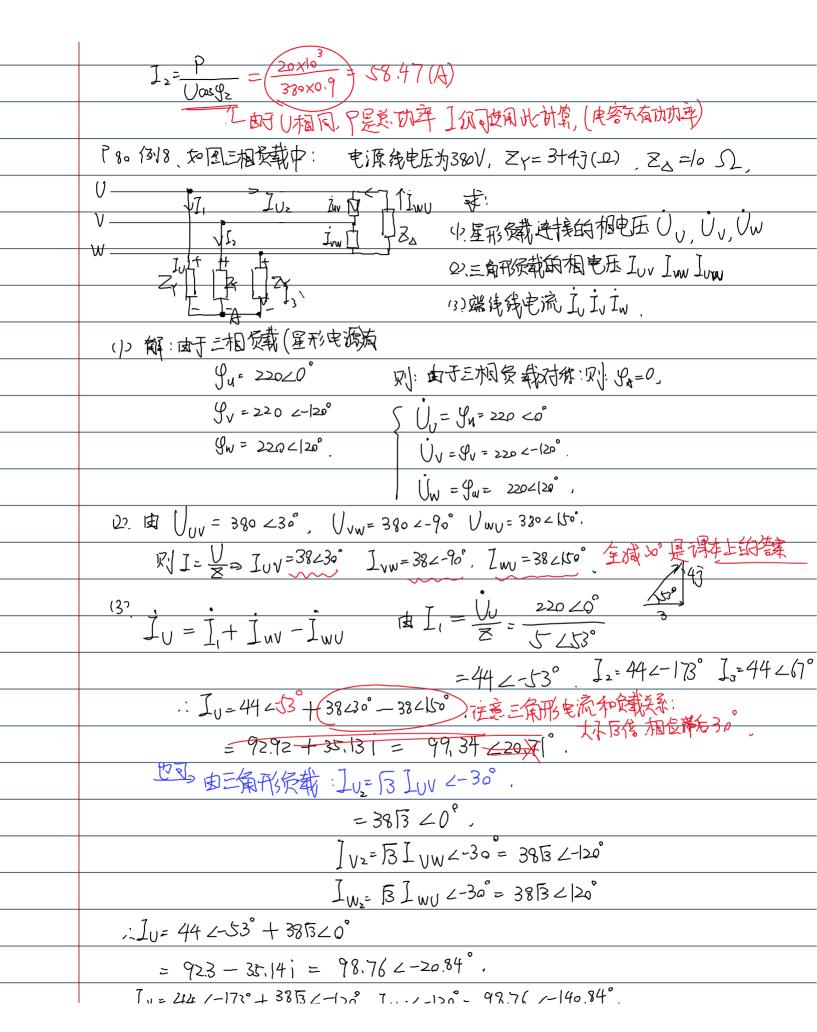
箈	=	辛	石	题
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Sunday, October 15, 2023 11:12 AM
3.1, 已知; f=50Hz, 初相角9e= 二, 有效值 U=220 V, 求;
少·电压最大道:
田 Um= 巨U=220区= 311 (V)
②. 医瞬时值的表达式:
由W====================================
· U= 311 sin (3/4++ T) -> A>+= 0.00 Ns
U= 0.37は(V) 2.0 一角10·17=W
程量运算, N= 311(V), 算是0,
$\sim \sim $
12= [2. 6 Sin (Wt-30) A) = \$\frac{1}{2} = \frac{1}{2} \cdot
12= (2.65in (Wt-30)/d)
$= 8 \times \frac{1}{2} + 6 \times \frac{13}{2} + 9 \times \frac{13}{2}$
$-6x \downarrow g$
=(4+3/3)+j(4/3-3) $9=0.4037(rad)$
= 10 < 23, 13°
划: j= 10 ≥ os(w++23,13°)
例3、同频率两个电压为:
Un = 22012 sin 314t 3: Un = 220 20'
UB = 22012 Sin 314t -120° UB = 22012 Sin (314t-120°)
Uc= >20 15 sin (314+120°)
$220 + 220 \left(-\frac{1}{2} - \frac{13}{2}\right) + 220 \left(-\frac{1}{2} + \frac{13}{2}\right) = 0$
961.例9,一电感量为160mH的电感,忽略电阻:求:
(P, 400Hz, U=100 V 正3弦流电原的电流:
W= 2T, T= = = W=2TIf= 400X2TI=800TI(8ad/6)
ı

	W= 2T , T= = = W=2Tif= 400X2TI=800TI(800/6)
	T = V 100 _ 100 = 0>65(A)
	$I = \frac{V}{X_{L}} = \frac{100}{WL} = \frac{100}{800\pi \times 150 \times 10^{-3}} = 0.265 \text{ (A)}$ $= 265 \text{ (mA)}$
	D. So.Ha. 流过的电流:
	X= w L = 2 Tif. L = 2 Ti x50 x 150 x /0 = 15 Ti
	· J= <u>V</u> = <u>/∞</u> = 2,122(A) 3例5. a.1 μT电容, 频率4 con Hz, 电压为1000 V 纸正弦交流电源上, 术电流
76	多例上,alluT电容,频率4cmHz,电压为1cmV的正路交流电源上,下电流
	$X_{c} = \frac{1}{wc} = \frac{1}{2\pi fc} = 3978.87(\Omega).$
] = U = 25, ((mA)
	在50Hz: Xc= L= 3.18×104(几)=31.8 (k几)
	I=UX= 3,14(mA).
P	66例6RLC串联电路:R=20.0C, L=100mH, C=30μF,电源电压
	N=220/2 sin (3/4++30°), it:
	(/) 电路中的电流方
	D. 各六件 电压: W=314(rod/s)
	$\widehat{\mathbf{M}}; \ (\mathcal{V} \times_{\mathcal{L}} = \mathcal{W} = 314 \times 100 \times 10^{-3} = 31.4 \ (\Omega)$
	Xc = 1 = 1 (S, K(Ω) R/Z=R+i(X, -Xc)
	= 20-74,76i
	$I = \frac{1}{Z} = \frac{220 \times 30^{\circ}}{77.4 \times -75^{\circ}} = 2.84 \times 30^{\circ} - (-75^{\circ})$
	$(2) (\sqrt{-1}) = 30.072 (-3.07) = 30.072 $
	U _L = J·J X _L = 89.176 <u>21</u> 25° 瞬時値略去。、 U _C =-J X _C ·J=301.466 <u>2</u> 以。
	P69.例 7、 如:R=2.Q, L=18 MH, C=1 MF, 电源电压 U=10V.
	f=53 kHz, 载;
	(D: Oro 4 mil.)





=923-35.14i=98.762-20.84.
 Iv=44 <-173°+3853 <-120°= Iv. <-120°= 98.76 <-140.84°.
Iw=Iv <-120°= 98.76 <299,16°.
另外需要说明:不定实际解释中选负载(J为220~0°)
也可选线电压 Uuv=380 ∠0°, 为参考电压、