$$I_{1} = \frac{V_{\infty}}{2K} = \frac{2K(I_{2} - I_{1})}{2K}$$

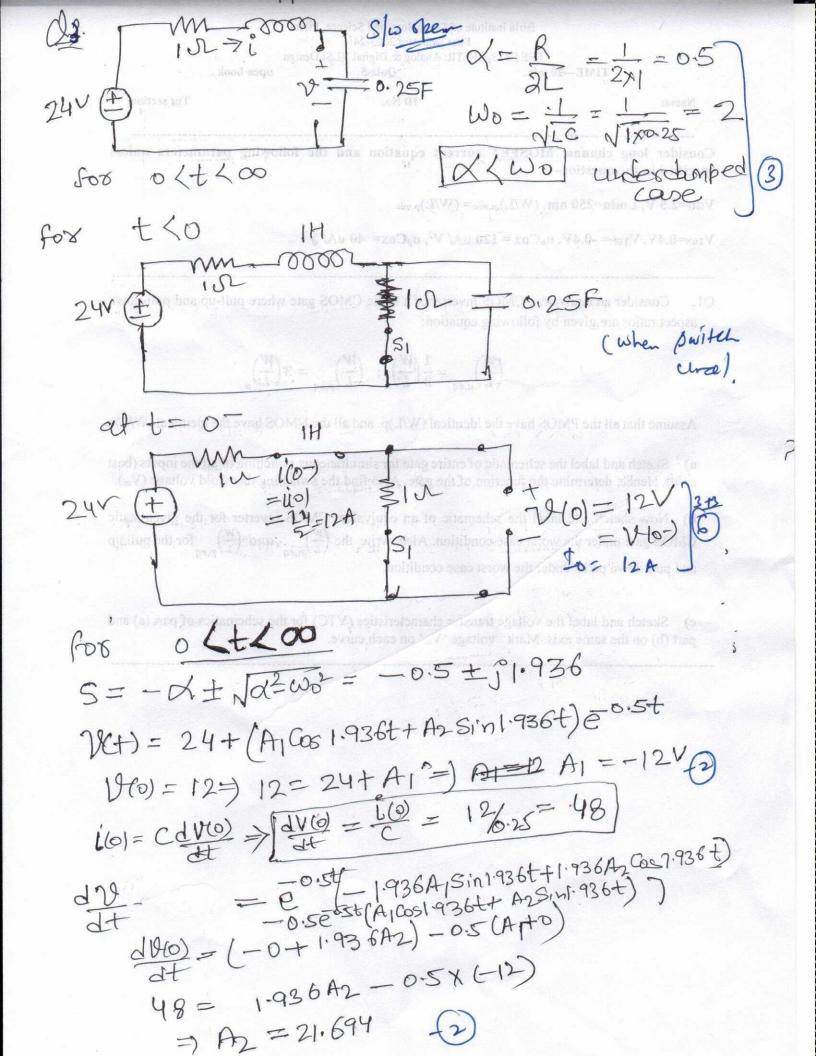
$$I_{2} + I_{1} - I_{3} = 0 \quad -2$$

$$I_{1} = I_{1} - I_{3} = 0 \quad -2$$

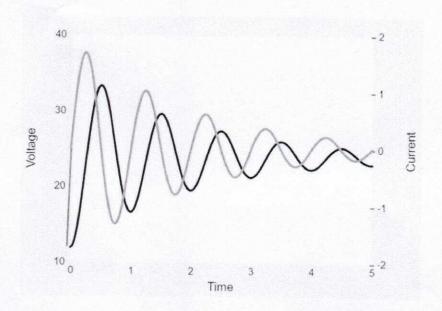
$$I_{2} = I_{1} - I_{3} - I_{3} - I_{4} -$$

IA=12625.840=10.8-15.23A Ital = 20 [-36.87" (as costo.8=36.49") = (16-512) A = (16-512) A V = (0) Lo = 5 (36.87) - 4+13 => R=44×=32-6 Impedane + CILA- 7 24 = 106] = 8.33 ps.84" = 7.5+3.63 RAZ 7.54 X= 3.6312. - 6 NOW Iloud - IA = Te (usyku) ₹ = 201-36.87 - 121-25.84° Ty = 16-112- (10.8-)5.23) - 3 至= 512-16.77= 8.541-52.47 => 78= V = 10060 8-546-52-43 = T1.71/52.47° = Rg=7.132 8 ×8=9,2861-6 Hotal Ques isgiven of Capacitane Proted = Ilory x Rtola= 202x 4 = 1600W Q1017 = 12 x x 1074 = 202 x3 = 1200 VAR Regd CAS 310= 18.190 tand = Que = 3 0.33 = 1200 - Q = 3 Q = 574 VAR - B QC = 674 = V2 = V2. WG = (100), 2 XXXXXXX C =) (= 215 UF) -(4)

DIONED TAY VIN TORES



⇒ 194) = $24 + (21.694 \sin 1936 + -12 \cos 1936 +) = \cos 4$ (4) $i(t) = C \frac{dV(t)}{dt} = 0.25 \frac{d}{dt} \left[24 + \frac{2}{3} (24 + \frac{2}$



L> R } 35WL }R2 72m= (R111JUL) 11 (R2+ juc) = (FRIWL) × R2+ GWC (JAWL) (R2+ Inve) = (W2 R1 R2 LC + jw R1 L)[R1 - W2 LC R1 - W2 LCR2 - jw(1+R2R2) (R-W2LCRy -W2LCR2)2+W2(L+RR2C)2 at resonance, Im(12/20. WBR7R2LC2+WR2L-WBR7L2CDO. taking Common WR,2L WIRZL (W2R2 C2+1-W2Le) =0. WIR, 2 +0, => WPLE - W2 R2C2 = 1 L. We 2 herpee on, We 1

Wo = 2-603 Ruad A Or, po=414.342 [bo=00], _ (69) Zin (wo) = (R1 # Jur) 11 (R2 + June) WL = 26.03 wo, We = 21.34 wo = (1x)'26:63 /11(10-j'2134) = (0.998 + j0.0884) 11(10-121.34) = 2354L-62.7° 2 10.8-120,116 23.97 L-62.70 0,998-521.3016 =:0.08To, SIJ J,h {R {R2, 10. since, I'm its applied across & which is in parallel to however & hesiston, Ro. THE SUR SINCRE STR NO STESI resoponse a of Thigh pass filter