AND PA. = average lower = = = (Vrm. Irm)

appears power

P= Vinitimo cord = 20x220x0075

[P = 3.3 KW] Any

Men laster of grander of pulled with all the so should all the so should be so s

c = p (tondois - tond now)

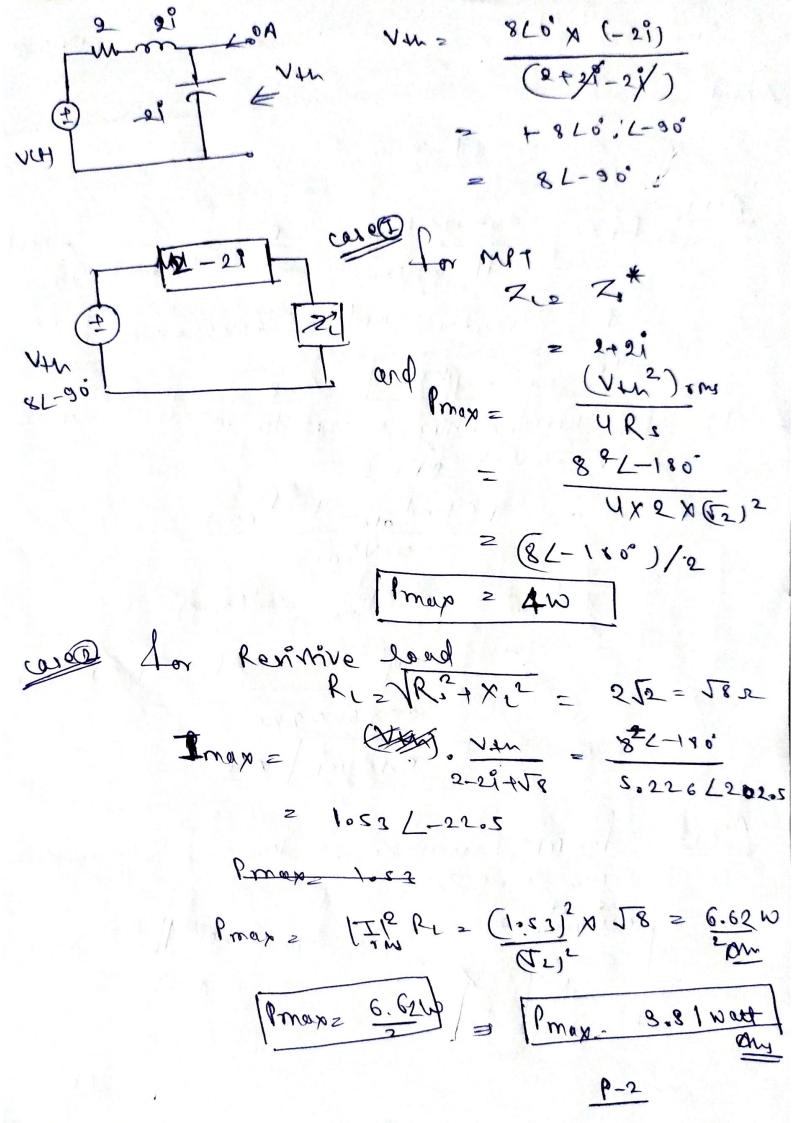
prous = 0, pro = cost (0.75)

10-(6188.0) Jaa88 = 0 27×60× 220°

(c= 0.159mf) AN

for met aeross Ze, Let dend therein equivalent N/w amos Ze

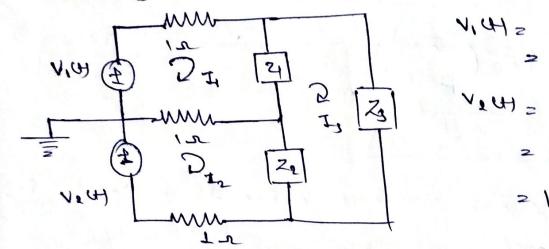
Z+n = (2+2i) / (-2i) 2 9-29



25MT 3 40MH >> = [2] [2a] Z12 -9xc= -106.15752 Zez 20+9×1=20+15,072952 Then Zeq= Zeq = 25.92 +9 11.875 \$ = tant (Zeglam) = tant (11.80) Φ = 24.61 = / Coro = 0.909 LZeg = tre and overall **(**b) behavin of Zeg is 9 Multire hence 9+ is logging of. name of 'c1 to get 89=1 0 Zeq 2 (20+915.072)(-1xc)
20+915.072+1-9xc)

 $= \frac{(201^{2}+(15.072)(100)(20-1(15.072-10))}{(201^{2}+(15.072-10)^{2}}$

And given cks



apply KVI & Loop (1) (2) and (3)

-V1+ I1+ Z1(I1-I3)+ (I1-I2)=0

I1 (U+5i)- I2- (2+5i) I3= 120 V2- (7)

-V2+ (I2-I1) + Z2(I2-I3)+ I2=0

-I1+ (5+4i) I2-(3+4i) I3= 120 V2i -(2)

マッナッナ でんしまーエリナン(エーエリニロ => -6+=1) +1 - (3+11) +2 + (10-61) +3 = 0 By somial O' D' D I = 24.51-137.17 = 44.52 L-56.6. In = 13.92+930.34 = 33.38 L65.36 Is = 2.82+ 121.18 = 21.37 (82. 420 Gence, power supplied of VI: Pang = 1. VIII (00 (00-01) = = x 15025 X AA.25 (0-(-26.6.)) Pang = 2.079 KW A former supply by N2: Pang = = x vex I2 cor (Ou-OI) 2 12012 × 33.38(90'-65.36) 2.57 KW By ghoson demain 1 C C WU > 1/900 10 cost -> 10L0° Henre equation will be come N+ 1 = 10/00 = N(1-3) = 10/00 { we/red/see]

=> N(1-7) = 10/0, => N 15 \ T-AZ, = 10/0. N = 10 TAR. = 4.04 TAR. N NOT = 4.07 cos (au+150) NOT 2007 (24 42) AM @ gran -> 1001 ran ->1/2100 -> 50 9 WV + 5V + AX V = 20 L10° w= A radise 41×V+ 5V + (-iv) = 20410° (39+5) N = 20L10° $= \frac{90 \times 10^{\circ}}{5.43 \times 30.96} = 9.43 \times 20.96^{\circ} \text{ V}$ NM= 8.43 vin (4+ -20,96) N /Vs/ 2 145V 17/1 = 50V 17/1 = 110V 1001 = 110V 1001 = 601 Aragoz 60Hz

RIPER = 100/ LOV-09 ---

Los Lenerg Ou and or, SPrice lost is partly Primitive, current to lage the vertage CANCE V, is across a regi resistor, hence Io and Vo have some phase 1/2/2= [1/1/2/2012 + 2/1/1/2/ COID but an me values F 000 = (112) 5 - 601 - (10) 27507110 0 = 54,26° = 00-09 Vo $|V_0|^2 = |V_1| + 1$ Put all the values

ord $|V_0|^2 = |V_1| + 1$ ord $|V_0|^2 = |V_1| + 1$ Then argle by $|V_0|^2$ and $|V_1|^2$ $|V_0|^2 = |V_0|^2$ $|V_0|^2 = |V_0|^2$ No Nol= 1/11/4 ho 1/2 51/1/1/1/10/04 : /90/ = [N1] = (50) R+1 W1 = Nol L0 = 110x Ry 254. 26° RAPIWI = 2.2 R1 (0.584490.812) = 1.285 R1 + 310785R1 Hence [R= 10285 Ry] 001= 1.785 R= LZ 1.785 R1 L= 4.735R, my Am

Given R1 = 400-2 L2 2 600 n Rg = 1.2 K-2 En = 0.34f m = - cm Ang. = 50Hz co = 100x ray rec every pervelog of about (R2-1/wce) Rx 11 (= 1 wcx) $= \frac{R_3}{\left(\frac{R_3 \times (-1)/\omega(R)}{R_3 - 1/\omega(R)}\right)}$ R1 - 9/wc2 put all me values and arrange it 122 - PR2 = RIRX (1-1WRX CR)
1+W2Rx2Cx2 $R_2 R_3 = \frac{R_1 R_2}{1 + (\omega R_2 C_2)^2}$ Fr = whire cx 1+ (which)2

 $R_{x}C_{x} = \frac{1}{(100x)^{2} + 600 \times 0.3 \times 10^{-6}} = 0.056 \text{ see}$ $R_{x}C_{x} = \frac{1}{1+ w^{2}(R_{x}C_{x})^{2}}$ $R_{x} = \frac{1}{1+ w^{2}(R_{x}C_{x})^{2}}$ $R_{x} = \frac{0.56}{556} \times 10^{-3}$ $R_{x} = \frac{0.56}{556} \times 10^{-3}$

4

1