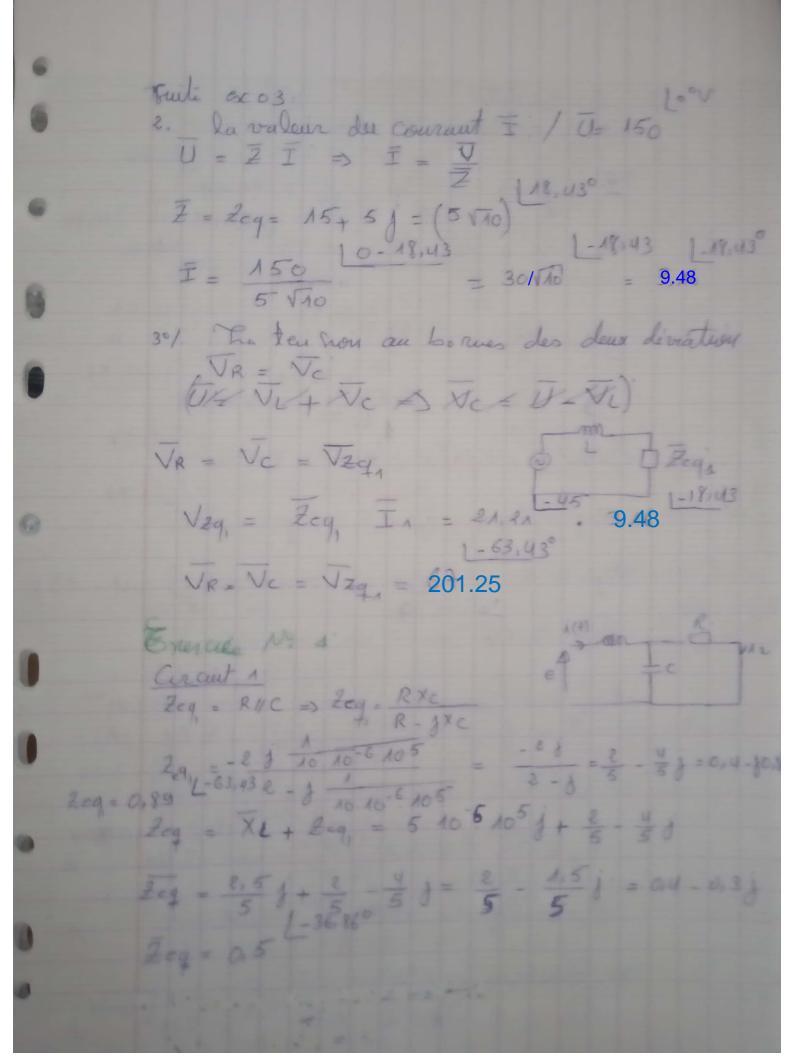


Exercice WE OR U = 150 V (H) A R f = 50 Hg. U = 150 V U D T T In- L'in tensite efficace des courant B V = Z. I = I = V /Z = R-1 & V I = V en valeur efficace Z = 100 - 1.10¹⁶ j = 100 - j 160 => Z = 1892 I = 150 = 0,8 A. I 2 VR = RI = 100 x 0, 8 = 80 V Vc = Xc I = 160x0,8 = 129 V II. 1. La valeur de L'induction L. le courant est en pluse avec la Gensionet & I e 1 La valeur efficace des comments

I = \frac{1}{2} = \frac{150}{100} = 1.5 A I 2 2. La valeur efficace de tention aux bours VL = XL I = 160 X 1,5 = 240 1 1. L'impédance complesce up l'E Escercia Nº 03 Zeq = R//C = -330x30 = 15-315

Zeq = RXC = 30-30 2 cq = 1 XL + Zegn = 20j + 15 - 15 Zog = 15 + 5 }



2- les cornants E(+)= 10 Sm (105E) = 7.07 V $\overline{I} = \frac{E}{I} = \frac{107}{0.5} = \frac{136,86}{0.5} = \frac{14,14}{0.5}$ VR = Vc = Zeq, I = 0,89 [-63,43 [36,86] = 12,58 [-26,57] $\overline{I}_{R} = \frac{\overline{V}_{R}}{R} = .12,58$ \(\frac{1}{26},57\) = 6,3 \(\frac{1}{26},57\) $\frac{1}{12} = \frac{\sqrt{c}}{\sqrt{c}} = \frac{12,58}{\sqrt{12,58}} = 12,58$ Cerciut 2: 3-1 VR = R I2 = 25,16 1-116,57. Zeg = Leg 2 = 0,4 - 0,8 g = 0,89 Zeg = Xc + Zeg, = -j +0,4 -0,8j =0,4-1,8j. 2cq = 1,84 2-77,47. 2. Les Consents 7,0720 $I = \overline{\xi} = \frac{+,01}{2}$ 1,84 L-77,47 = 3,84 (A) 3º/ Carnon aux bornes de R JR = R JR = 2. 1,705 L14,04 3,4 L14,04