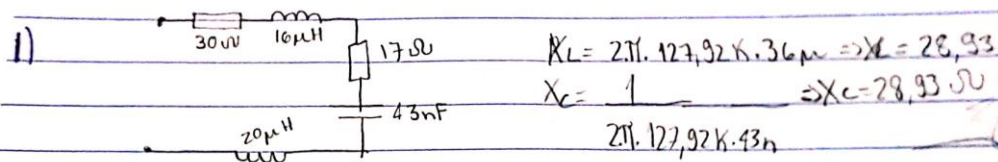


Edmundo Henrique de Paiva Silva 675 GEB



$R = \frac{1}{2\pi \sqrt{43 \text{ n} \cdot 36 \mu}} \Rightarrow 127,92 \text{ [KHz]}$   
 $\dot{Z} = 47 - j28,93 + j28,93 \Omega$

2)  $f_0 = 127,9 \text{ [KHz]} \Rightarrow \frac{1}{2} \cdot f_0 = 63,9 \text{ [KHz]}$

$X_C = \frac{1}{2\pi \cdot 63,9 \text{ K} \cdot 43 \text{ n}} = 57,92 \Omega$   
 $X_L = 2\pi \cdot 63,9 \text{ K} \cdot 36 \mu = 14,45 \Omega$

$\dot{Z} = 47 - j57,92 + j14,45$   
 $\dot{Z} = 47 - j43,47 \Omega$

3)  $f_0 = 127,9 \text{ [KHz]} \Rightarrow f_0 \cdot 2 \Rightarrow 255,8 \text{ [KHz]}$

$X_C = \frac{1}{2\pi \cdot 255,8 \text{ K} \cdot 43 \text{ n}} = 14,47 \Omega$   
 $X_L = 2\pi \cdot 255,8 \text{ K} \cdot 36 \mu = 57,86 \Omega$

$\dot{Z} = 47 - j14,47 + j57,86$   
 $\dot{Z} = 47 + j43,39 \Omega$