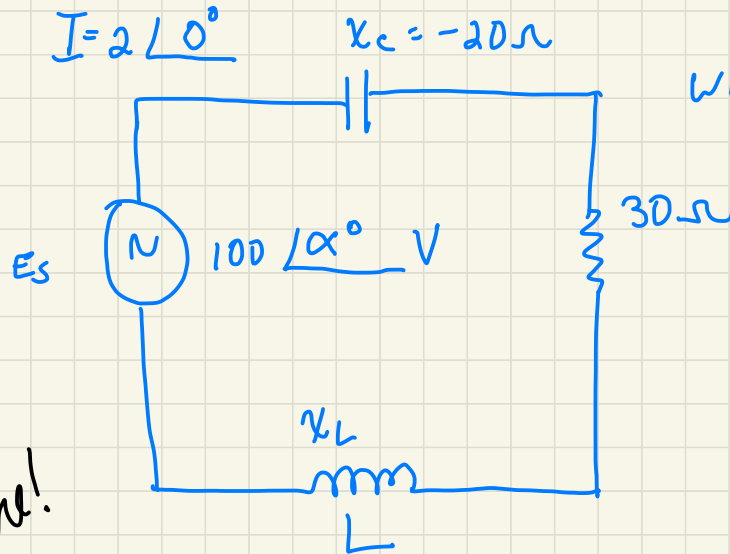


I'm
Lost
Here!



What is the value of X_L

Absolute Value of $E_s = 100 \text{ V}$

they give this hint:

First find Z .

E & I are given

Next find X

Then X_L

$$\frac{100 \text{ V}}{2 + j0} = 50 \Omega \quad \text{I think this is } Z.$$

$$X_c + 30 \Omega = (0 - j20) + (30 + j0) = 30 - j20$$

$$\begin{aligned} Z &= (50 + j0) - (30 - j20) \\ &= 20 + j20 \end{aligned}$$