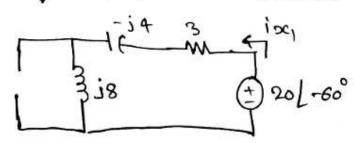
<< Search more Solutions!

Found Errors in Solution? >> Report here!

Answer

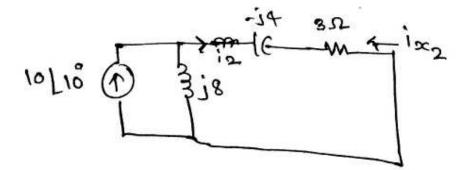
$$X_{c} = \frac{1}{\omega_{c}} = \frac{(2)(4) = 8 \Omega}{(2)(78)} = 4\Omega$$

Apply superposition theorem



$$ix = \frac{20[-60^{\circ}]}{3-j4+j8} = \frac{20[-60^{\circ}]}{3+j4} = \frac{20[-60^{\circ}]}{5[53\cdot130^{\circ}]}$$

Apply superposition theorem



from circuit in 2 is in opposite direction of 12

Likes: 2 Dislikes: 0