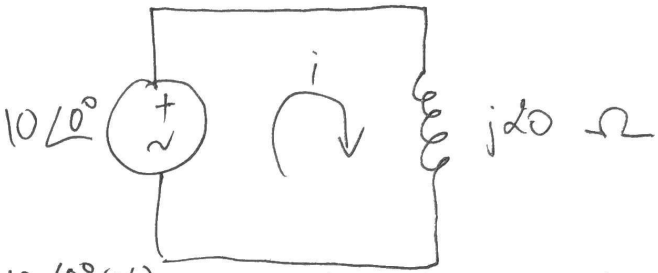
Nhat Ho
10535531 1

Quiz 8:

① T

② We have:

$i = 0.5 \angle 90°$



because: $i = \frac{V}{Z_L} = \frac{10\angle 0° (V)}{j20(\Omega)} = \frac{10\angle 0°}{20\angle 90°} = \frac{10}{20}\angle 0° - 90°$

$\Rightarrow i = 0.5 \angle -90°$ It matches with the given $i = 0.5\angle 90°$

$\Rightarrow$ the Ohm's Law calculation result in $i = 0.5 \angle 90°$