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Started on	Wednesday, 1 February 2017, 12:36 PM
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State	Finished
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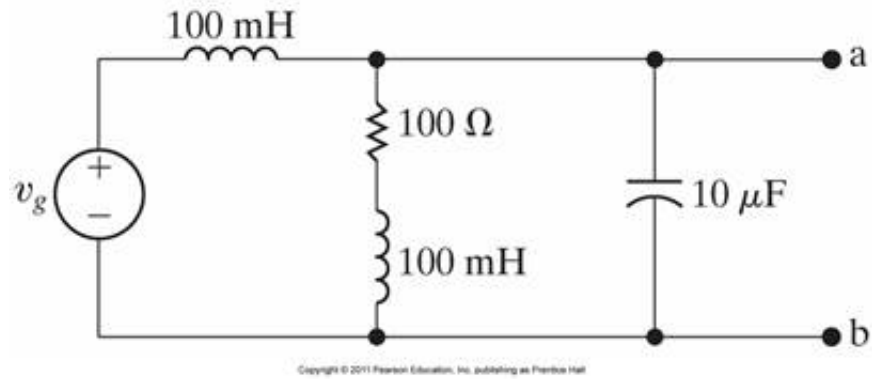
Completed on	Wednesday, 1 February 2017, 1:17 PM
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Time taken	41 mins 12 secs
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Grade	100.00 out of 100.00
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Question 1

Correct

Mark 100.00 out of
100.00**Quiz 1**

The sinusoidal voltage source in the circuit $v_g = 240 \cos(4,000t) \text{ V}_{\text{rms}}$.

a) Find the Thévenin voltage with respect to the terminals a,b.

Express your answer in polar form (make the magnitude positive and the angle negative).

$$|V_{\text{Th}}| = \boxed{24} \checkmark \text{ V}$$

$$\text{Angle} = \boxed{-179.4} \checkmark \text{ Degrees}$$

b) Find the Thévenin impedance with respect to the terminals a,b.

Express your answer in polar form.

$$|Z_{\text{ab}}| = \boxed{28.44} \checkmark \text{ W (Ohm)}$$

$$\text{Angle} = \boxed{-89} \checkmark \text{ Degrees}$$

Correct

Marks for this submission: 100.00/100.00.