Congratulations! You passed!
TO PASS 70% or higher

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GRADE
100%

Module 4 Quiz

LATEST SUBMISSION GRADE
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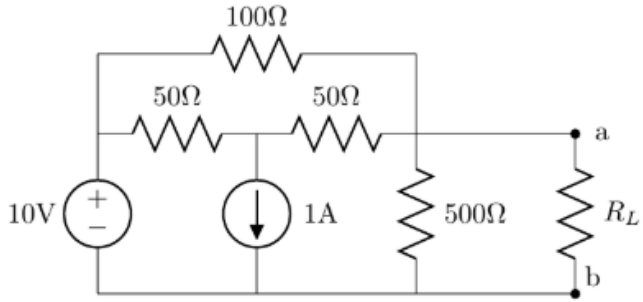
1. For the circuit below, determine the Thevenin equivalent resistance R_{TH} of the circuit with respect to the output between nodes a and b. Write your answer in ohms, but do not include units. Include at least two decimal places in your answers for the questions in this quiz.

1 / 1 point



45.45

Correct

Module 4 Quiz
Graded Quiz • 20 min

Due Apr 13, 12:29 PM IST

2. Determine the Thevenin equivalent voltage with respect to the output terminals a and b. Write your answer in volts, but do not include units. 1 / 1 point

-13.63

Correct

3. Using the results from Questions 1 and 2, determine the short circuit current corresponding of the corresponding Norton equivalent circuit. Write your answer in amps, but exclude units in your answer. 1 / 1 point

-0.29

Correct

4. For what value of the load resistance R_L is power transfer maximized? 1 / 1 point

45.45

Correct

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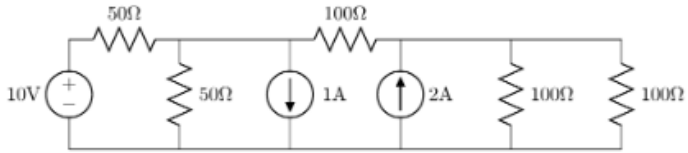
5. For R_L that maximizes power transfer, what is the power dissipated by the load? Write your answer in watts, but exclude units. 1 / 1 point

1.02283

Correct

6. For the circuit below, use source transformations to redraw the circuit in terms of a single independent source and a resistor. Write the resistance value in ohms, but exclude units. 1 / 1 point



175

Correct

7. For the previous circuit, if the independent source of the simplified circuit is a voltage source, what is its value in volts, excluding units? 1 / 1 point

-120

Correct

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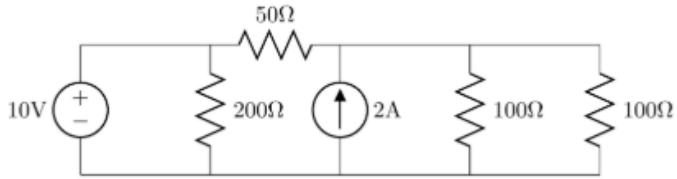
8. For the previous circuit, if the independent source of the simplified circuit is a current source, what is its value in amps, excluding units? 1 / 1 point

-0.6857

Correct

9. For the circuit below, use source transformations and the principle of superposition to determine the current flowing through the right-most 100Ω resistor. Write your answer in amps, but exclude units. 1 / 1 point



0.55

Correct

10. What is the power dissipated by the 200Ω resistor? Write your answer in watts, but exclude units. 1 / 1 point

0.5

Correct