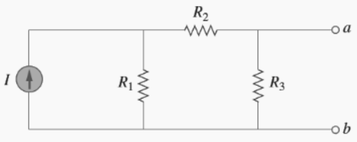
Unit 6 - Network Theorems -2

Assignment 4

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-08-28, 23:59 IST.

1) Determine the Norton current and resistance if $R_1 = R_2 = 10\Omega$, $R_3 = 20\Omega$, and $I = 4\text{A}$ for the circuit given below? *2 points*

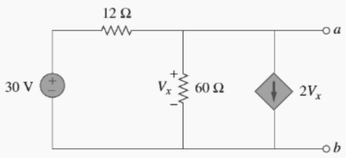


- 1A, 10Ω
- 2A, 20Ω
- 1A, 20Ω
- 2A, 10Ω

No, the answer is incorrect.
Score: 0

Accepted Answers:
2A, 10Ω

2) Obtain the Norton current with respect to terminals a an b for the following circuit? *2 points*

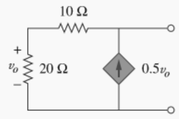


- 1.25A
- 2.5A
- 5A
- 10A

No, the answer is incorrect.
Score: 0

Accepted Answers:
2.5A

3) Find the Norton equivalent for the below circuit? *2 points*

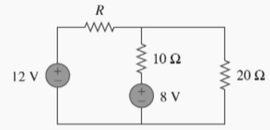


- −3.33Ω
- 3.33Ω
- −6.66Ω
- 6.66Ω

No, the answer is incorrect.
Score: 0

Accepted Answers:
−3.33Ω

4) Compute the value of R that results in maximum power transfer to the 10Ω resistor? *2 points*

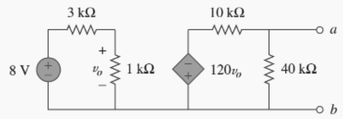


- 20Ω
- 10Ω
- 5Ω
- 0Ω

No, the answer is incorrect.
Score: 0

Accepted Answers:
0Ω

5) Determine the maximum power absorbed by the resistor connected across terminals a and b for the circuit shown below? *2 points*



- 4.6W
- 2.3W
- 1.15W
- 0W

No, the answer is incorrect.
Score: 0

Accepted Answers:
1.15W