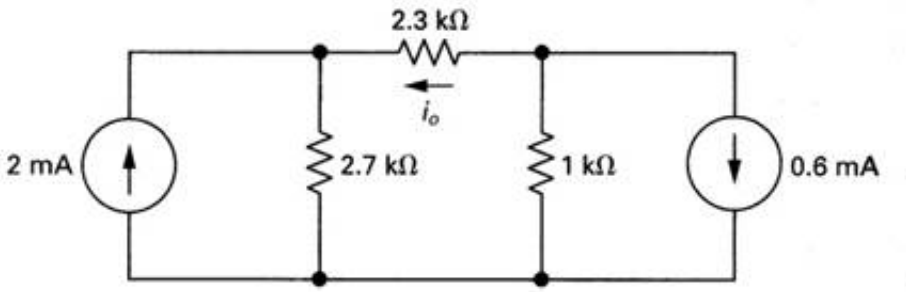
Started on	Sunday, 23 October 2016, 3:34 PM
State	Finished
Completed on	Sunday, 23 October 2016, 3:36 PM
Time taken	1 min 32 secs
Grade	**90.00** out of 100.00

Question 1

Correct

Mark 10.00 out of 10.00



P4.52_6ed

Use source transformations to:

a) Use Find the current i_0 through the 2.3 kΩ (kilo Ohm) resistor.

i_0 = {-1.020|-0.980 -1 ✓ mA (milli Amp)

b) Find the power absorbed/delivered by the 0.6 mA current source.

$P_{0.6mA}$ = 240 ✓ μW (micro Watt)

Numeric Answers

a) i_0 = -1.0 mA

b) $P_{0.6mA}$ = 240 mW (micro Watt) absorbing

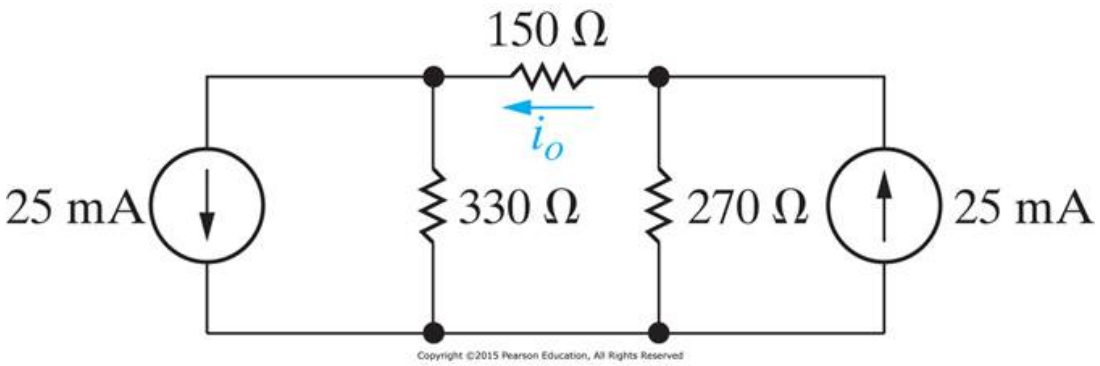
Correct

Marks for this submission: 10.00/10.00.

Question 2

Correct

Mark 10.00 out of 10.00



P4.61_10ed

Use source transformations to find the current i_0.

i_0 = 20 ✓ mA (milli Amp)

Numeric Answer

i_0 = 20 mA

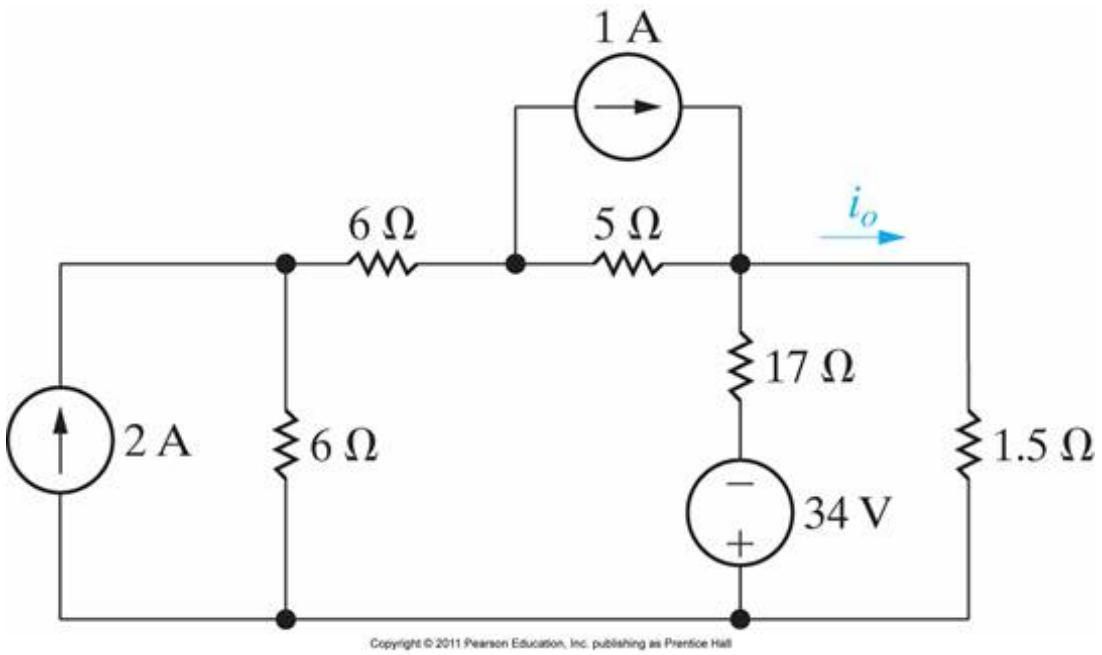
Correct

Marks for this submission: 10.00/10.00.

Question 3

Correct

Mark 10.00 out of 10.00



P4.60_9ed

Use source transformations to find the current i_0.

i_0 = -0.85 ✓ A

Numeric Answer

i_0 = -0.85 A

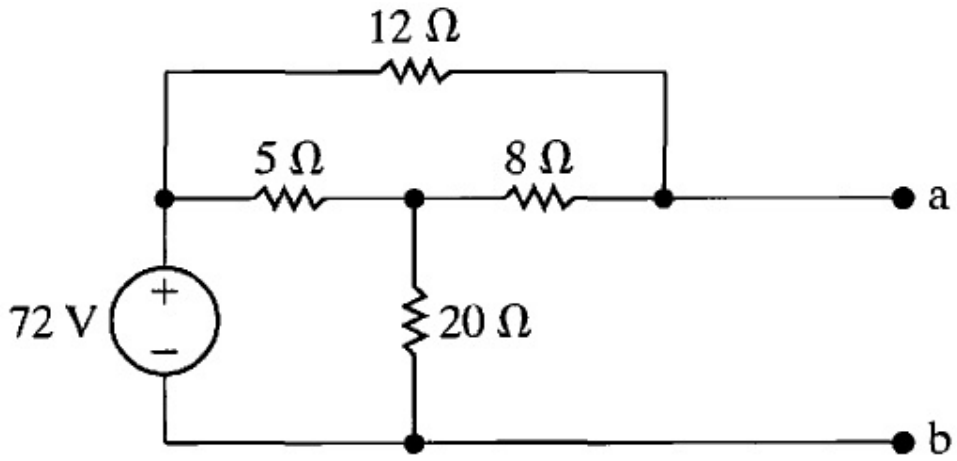
Correct

Marks for this submission: 10.00/10.00.

Question 4

Correct

Mark 10.00 out of 10.00



AP4.16_9ed

Find the Thévenin equivalent circuit with respect to the terminals a,b for the circuit shown

V_{Th} = 64.8 ✓ V

R_{Th} = 6 ✓ Ω (Ohms)

Numeric Answer

V_{Th} = 64.8 V
R_{Th} = 6 Ω

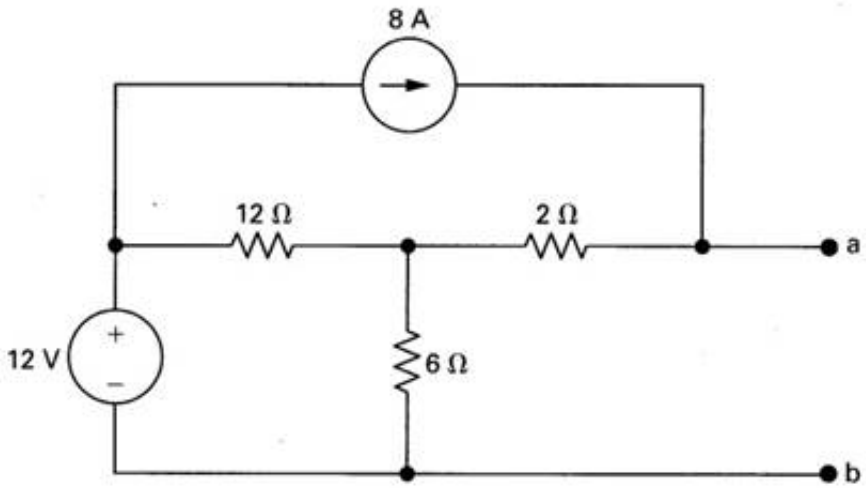
Correct

Marks for this submission: 10.00/10.00.

Question 5

Correct

Mark 10.00 out of 10.00



P4.59_6ed

Find the Thévenin equivalent circuit with respect to the terminals a,b for this circuit.

V_{Th} = 52 ✓ V

R_{Th} = 6 ✓ Ω (Ohm)

Numeric Answer

V_{Th} = 52 V
R_{Th} = 6 Ω (Ohm)

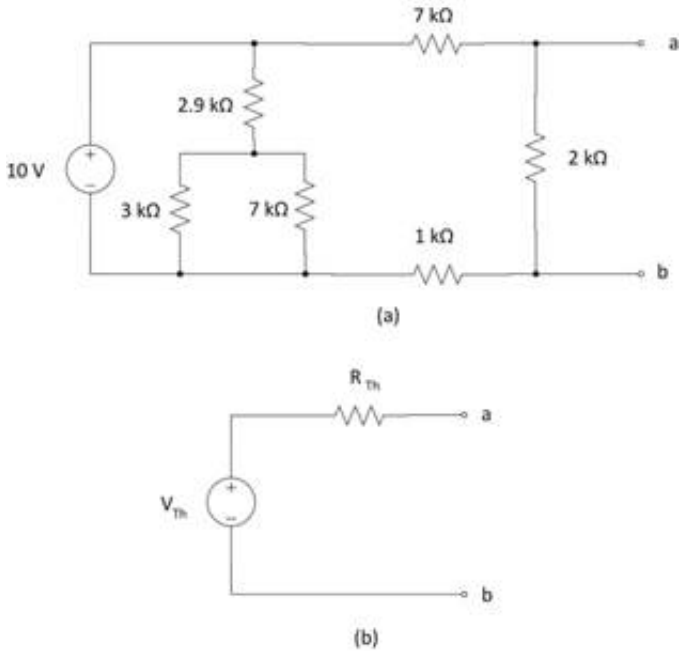
Correct

Marks for this submission: 10.00/10.00.

Question 6

Incorrect

Mark 0.00 out of 10.00



AS4-02

The circuit in figure (a) is simplified to its Thévenin equivalent shown in (b).

Find the numerical values for V_{Th} and R_{Th}

V_{Th} = 10 ✗ V

R_{Th} = 0.57 ✗ kΩ (kilo Ohm)

Numeric Answer

V_{Th} = 2 V
R_{Th} = 1.6 kΩ

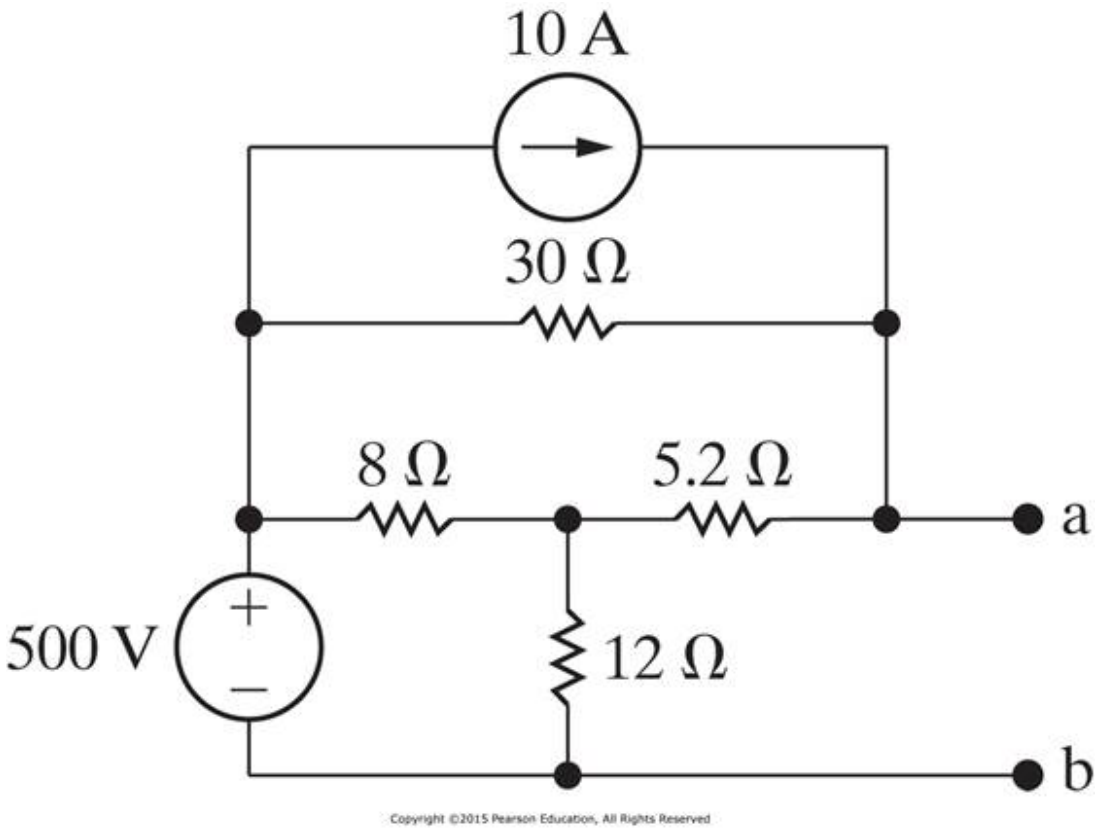
Incorrect

Marks for this submission: 0.00/10.00.

Question 7

Correct

Mark 10.00 out of 10.00



P4.67_10ed

Find the Thévenin equivalent circuit with respect to the terminals a,b for this circuit.

V_{Th} = 425 ✓ V

R_{Th} = 7.5 ✓ Ω (Ohm)

Numeric Answer

V_{Th} = 425 V
R_{Th} = 7.5 Ω (Ohm)

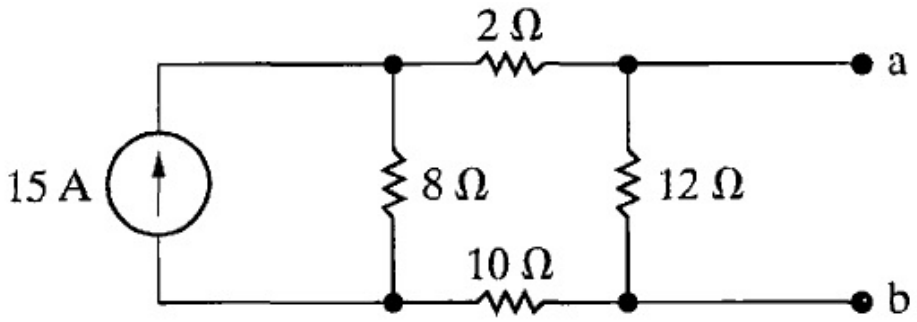
Correct

Marks for this submission: 10.00/10.00.

Question 8

Correct

Mark 10.00 out of 10.00



AP4.17_9ed

Find the Norton equivalent circuit with respect to the terminals a,b for the circuit.

I_N = 6 ✓ A (current directed toward terminal a)

$R_N = R_{Th}$ = 7.5 ✓ Ω (Ohm)

Numeric Answer

I_N = 6 A
R_{Th} = 7.5 Ω

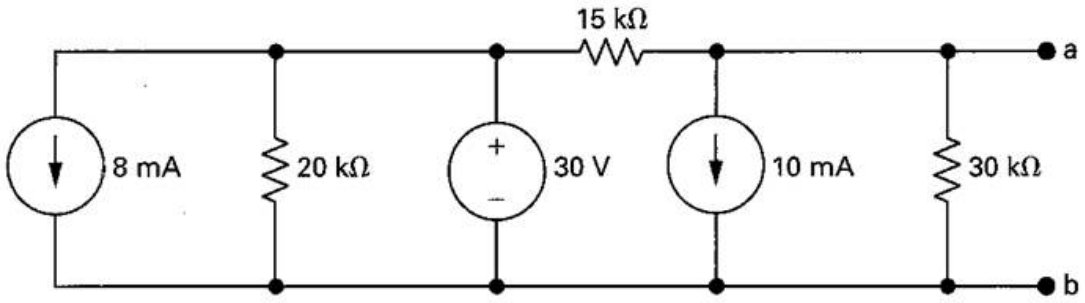
Correct

Marks for this submission: 10.00/10.00.

Question 9

Correct

Mark 10.00 out of 10.00



P4.62_6ed

Find the Norton equivalent circuit with respect to the terminals a,b for this circuit. The Norton equivalent current should "point up".

I_N = -8 ✓ mA (milli Amp)

R_{Th} = 10 ✓ kΩ (kilo Ohm)

Numeric Answer

I_N = -8 mA
R_{Th} = 10 kΩ (Ohm)

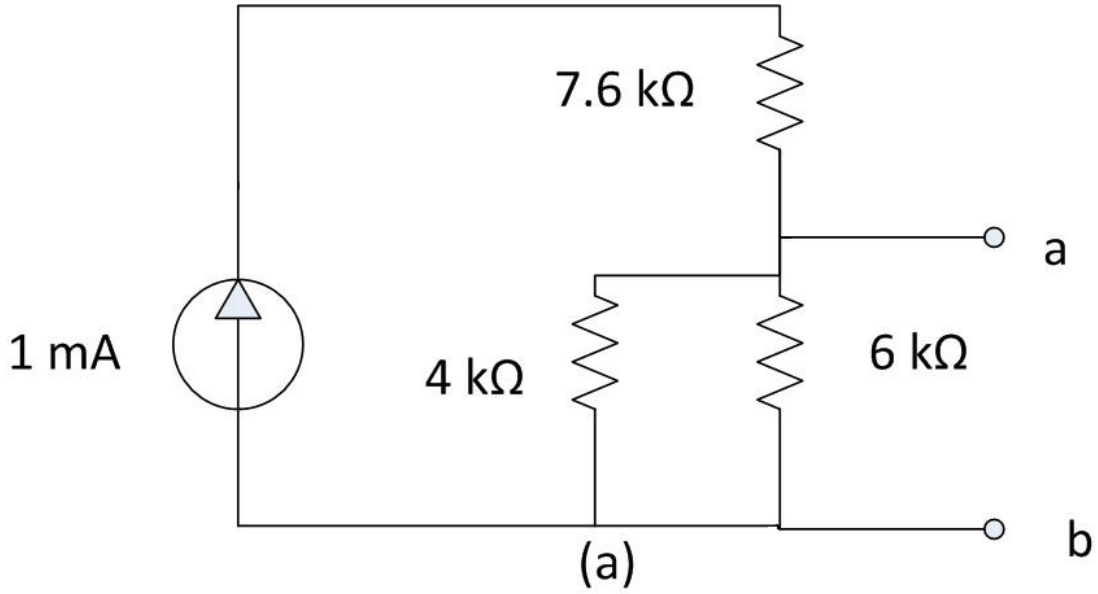
Correct

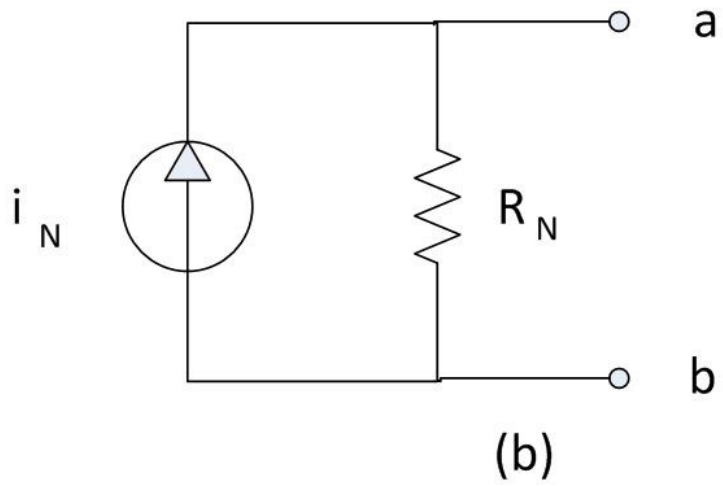
Marks for this submission: 10.00/10.00.

Question 10

Correct

Mark 10.00 out of 10.00





AS4-01

The circuit in figure (a) is simplified to its Norton equivalent shown in (b).

Find the numerical values for I_N and R_N.

I_N = 1 ✓ mA (milli Amp)

$R_N = R_{Th}$ = 2.4 ✓ kΩ (kilo Ohm)

Numeric Answer

I_N = 1 mA
R_N = 2.4 kΩ

Correct

Marks for this submission: 10.00/10.00.