Module 3 Quiz
Graded Quiz • 20 min

Due Apr 6, 12:29 PM IST

Congratulations! You passed!
TO PASS 70% or higher

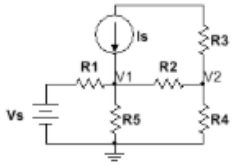
Keep Learning

GRADE
100%

Module 3 Quiz

LATEST SUBMISSION GRADE
100%

1. In the below circuit, $V_S = 12V$, $I_S = .05A$, $R1 = R4 = R5 = 1k\Omega$, and $R2 = R3 = 2k\Omega$. 1 / 1 point



What is the value of the node voltage V_1? Find the value in volts and omit the units from your answer.

19.42

Correct

2. In the circuit from Question 1, what is the value of the node voltage V_2? Find the value in volts and omit the units from your answer. 1 / 1 point

-26.85

Correct

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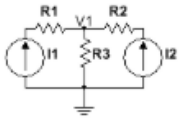
3. In the below circuit, $I_1 = 24mA$, $I_2 = 50mA$, $R_1 = 100\Omega$, $R_2 = 500\Omega$, and $R_3 = 1000\Omega$. 1 / 1 point

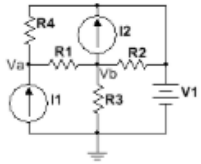


What is the value of the node voltage V_1? Find the value in volts and omit the units from your answer.

74

Correct

4. In the below circuit, $I_1 = 10mA$, $I_2 = 30mA$, $V_1 = 10V$, $R_1 = 800\Omega$, $R_2 = 100\Omega$, $R_3 = 300\Omega$, and $R_4 = 1k\Omega$. 1 / 1 point



What is the node voltage V_a? Find the value in volts and omit the units from your answer.

12.133

Correct

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5. In the circuit from Question 4, what is the node voltage V_b? Find the value in volts and omit the units from your answer. **1 / 1 point**

5.84

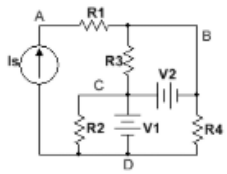
✓ Correct

6. In the circuit from Question 4, what is the magnitude of the current provided by the voltage source? Find the value in milliamps and omit the units from your answer. **1 / 1 point**

9.46

✓ Correct

7. In the below circuit, $I_S == 50mA$, $V_1 = 3V$, $V_2 = 6V$, $R_1 = 100\Omega$, $R_2 = 300\Omega$, $R_3 = 250\Omega$, and $R_4 = 50\Omega$ **1 / 1 point**



At which node should the ground be placed in order to minimize the number of unknown node voltages?

- A
- B
- C

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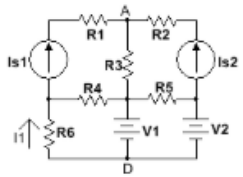
8. In the circuit from Question 7, what is V_{AD}? Find the value in volts and omit the units from your answer. **1 / 1 point**

2

Correct

9. In the below circuit, $I_{S1} = 10mA$, $I_{S2} = 20mA$, $V_1 = 3V$, $V_2 = 6V$, $R_1 = R_5 = R_6 = 100\Omega$ and $R_2 = R_3 = R_4 = 50\Omega$ **1 / 1 point**



What is the value of the current I_1 going up through R_6? Find the value in milliamps and omit the units from your answer.

-16.66

Correct

10. In the circuit from Question 9, what is the value of V_{AD}? Find the value in volts and omit the units from your answer. **1 / 1 point**

4.5

Correct