∞ EEE - Core Courses & Honors | Co ✕ | ∞ Linear Circuits 1: DC Analysis - Ho ✕ | ∞ Module 2 Quiz | Coursera ✕ | IMG PDF Image to PDF – Convert Images to ✕ | +

← → C ⌂ 🔒 coursera.org/learn/linear-circuits-dcanalysis/exam/DTC4U/module-2-quiz/view-attempt

Incognito

Module 2 Quiz
Graded Quiz • 20 min

Due Mar 30, 12:29 PM IST

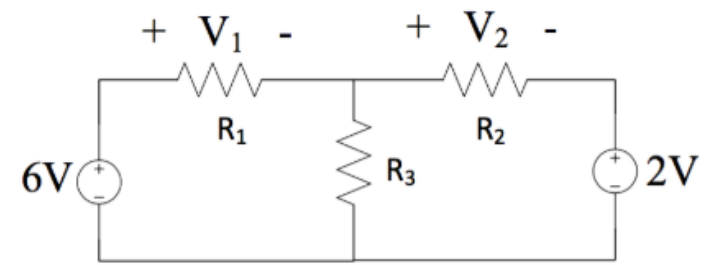✓ **Congratulations! You passed!**

TO PASS 70% or higher

Keep Learning

GRADE
90%

Module 2 Quiz

LATEST SUBMISSION GRADE

90%

1. In the following circuit, there are 2 voltage sources of 6 V and 2 V. V_2 is given as 1 V.
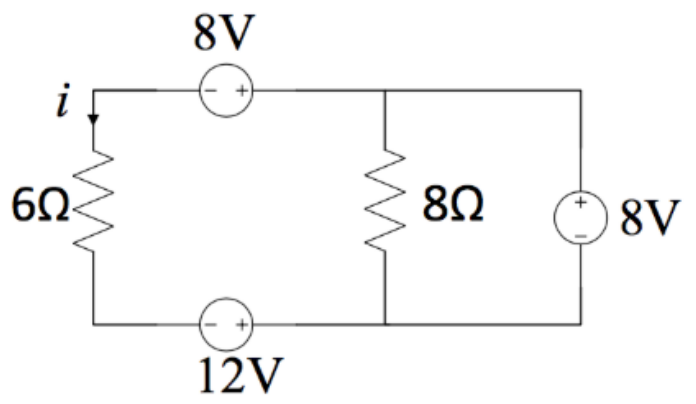
1/1 point

Determine the value of V_1. Enter the value in the box below without the units.

3

✓ Correct

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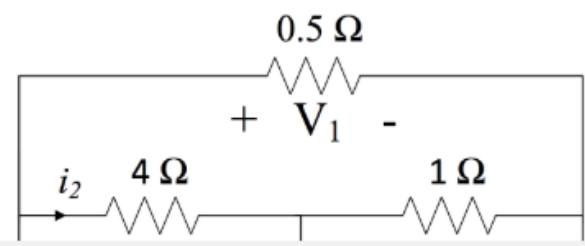2. For the circuit below, what is the current i?   **1/1 point**

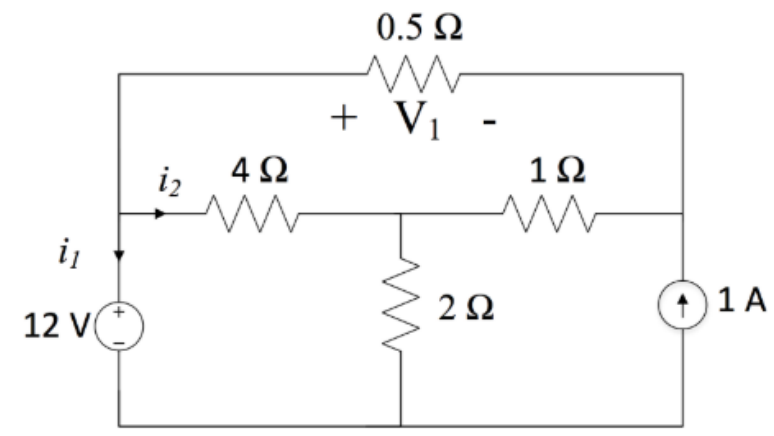Enter the value in the box below without the units.

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2
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✓ Correct

3. For the circuit below, $V_1 = 0.5\Omega$ $i_2 = 1A$.   **0/1 point**

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3. For the circuit below, $V_1 = 0.5\Omega$ $i_2 = 1A$.
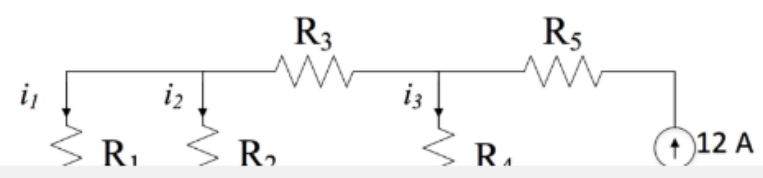
0 / 1 point

Determine the value of i_1 in Amps. Enter the value in the box below without the units.

1A

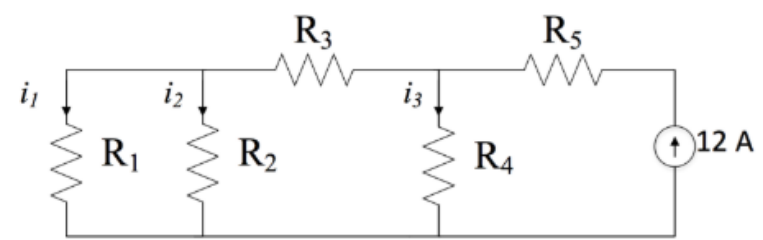! **Incorrect**
   The answer you gave is not a number.

4. For the circuit below, $i_1 = 1A$, $i_2 = 2A$.

1 / 1 point

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4. For the circuit below, $i_1 = 1A$, $i_2 = 2A$.
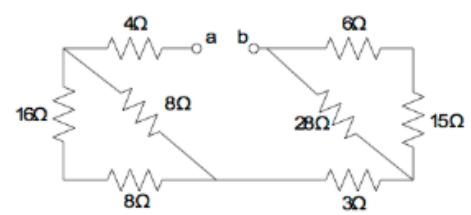
1 / 1 point

Determine the value of i_3 in Amps. Enter the value in the box below without units.
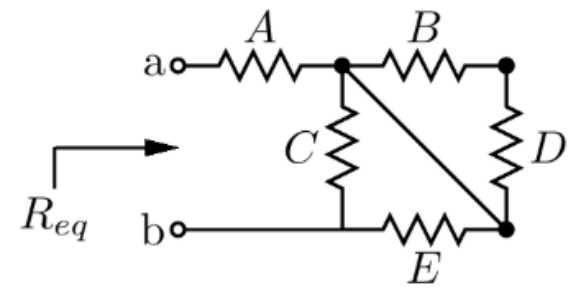
9

✓ Correct

5. For the circuit shown below, find the equivalent resistance between terminals a and b. Enter your answer in Ohms, without the units.

1 / 1 point

25

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6.   Select the correct R_{eq} equation for the following resistor network.   **1 / 1 point**

$\bullet$ $R_{eq} = A + (C \parallel E)$

$\bigcirc$ $R_{eq} = A + \left[(B + D) \| (C + E) \right]$

$\bigcirc$ $R_{eq} = A + \left[C \| (B + D + E) \right]$

$\bigcirc$ $R_{eq} = (A + C) \| E$

✓   **Correct**

7.   You are given the following circuit. Voltage $V1$ is the voltage across $R1$ and $V2$ is across $R2$. If the ratio   **1 / 1 point**
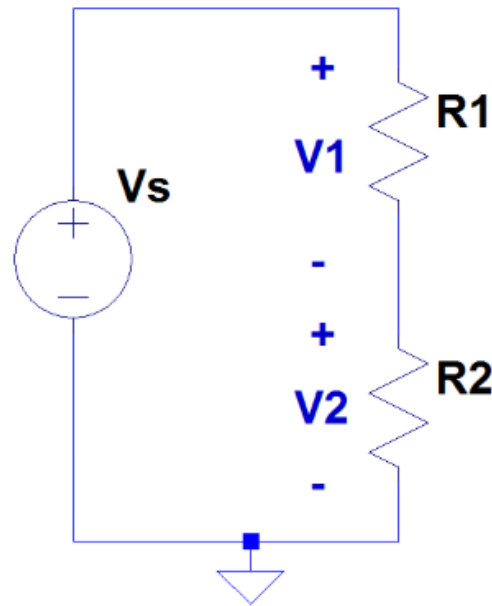between $R1$ and $R2$ is 5 to 1, i.e., $R1/R2 = 5/1$, what is the ratio of $V1$ to $V2$, $V1/V2 = ?$

Round your answer to two decimal places if necessary. Omit unit.

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7. You are given the following circuit. Voltage $V1$ is the voltage across $R1$ and $V2$ is across $R2$. If the ratio between $R1$ and $R2$ is 5 to 1, i.e., $R1/R2 = 5/1$, what is the ratio of $V1$ to $V2$, $V1/V2 = ?$

1/1 point

Round your answer to two decimal places if necessary. Omit unit.


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5
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✓ Correct

8. You are given the following circuit. Current $I1$ flows through $R1$ and $I2$ flows through $R2$. If the ratio
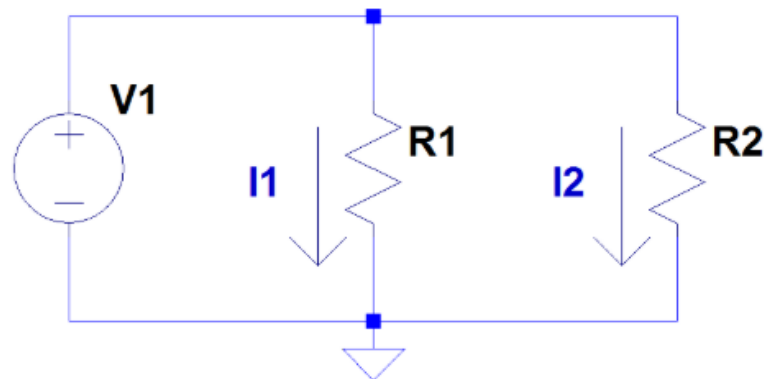
1/1 point

8. You are given the following circuit. Current $I1$ flows through $R1$ and $I2$ flows through $R2$. If the ratio between $R1$ and $R2$ is 1 to 4, i.e., $R1/R2 = 1/4$, what is the ratio of $I1$ to $I2$, $I1/I2 = ?$

1/1 point

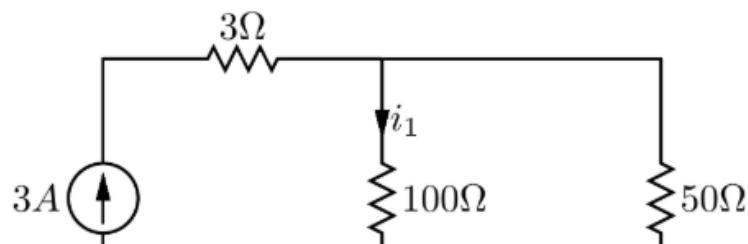Round your answer to two decimal places if necessary. Omit unit.
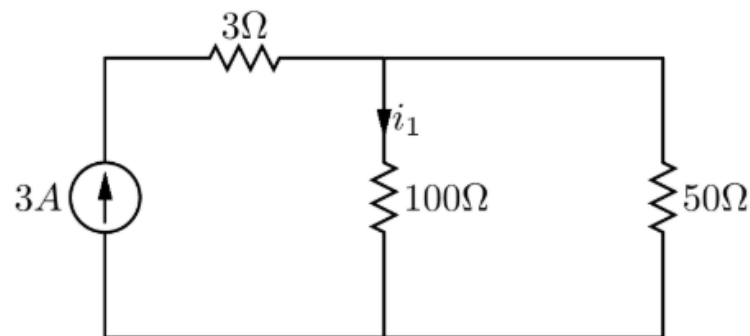


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4
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✓ Correct

9. Solve for the branch current i_1 in the following schematic.

1/1 point

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9. Solve for the branch current i_1 in the following schematic.
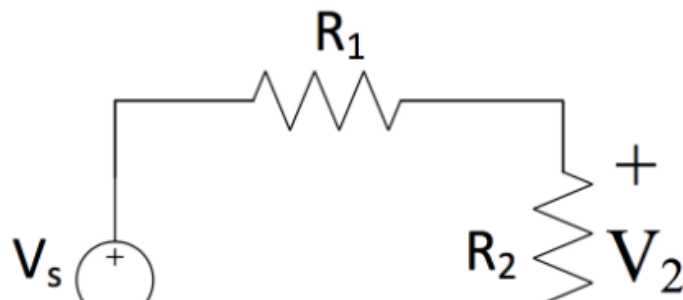
1 / 1 point

Enter only the numerical answer for i_1 in the text box. You do not need to include the units.

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1
```

✓ Correct

10. For the circuit below, $V_s = 30V$, $R_1 = 5\Omega$, $R_2 = 15\Omega$ and $R_3 = 10\Omega$.

1 / 1 point

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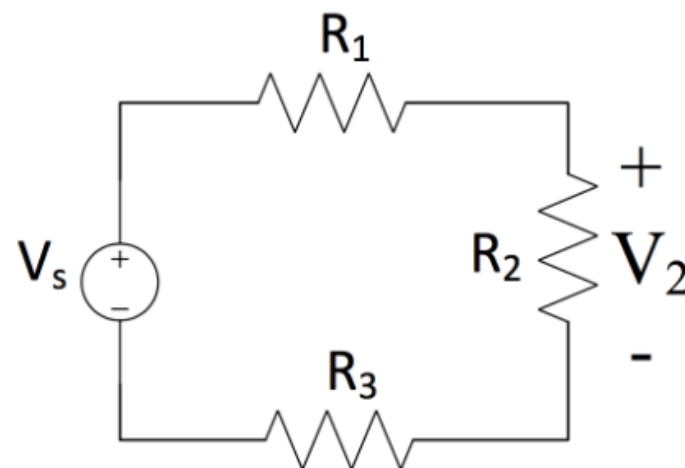Graded Quiz • 20 min

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1

✓ Correct

10. For the circuit below, $V_s = 30V$, $R_1 = 5\Omega$, $R_2 = 15\Omega$ and $R_3 = 10\Omega$.

1 / 1 point

Determine the value of V_2 in Volts. Enter the value in the box below without the units.

15

✓ Correct