

Closed book. No calculators are to be used for this quiz.
Quiz duration: 10 minutes

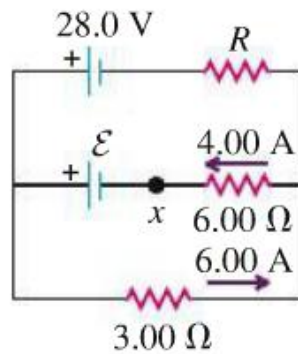
Name:

Student ID:

Signature:

In the circuit shown below;

- Find the current in resistor R
- Find the resistance R
- Find the unknown emf \mathcal{E}
- If the circuit is broken in the point x , what is the current in resistor R ?



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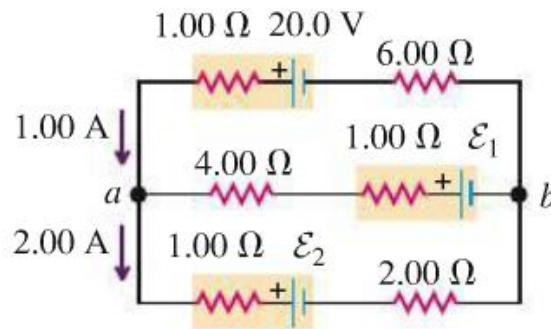
Name:

Student ID:

Signature:

In the circuit shown below;

- Find the emfs of ε_1 and ε_2 ,
- Find the potential difference of point b relative to point a .



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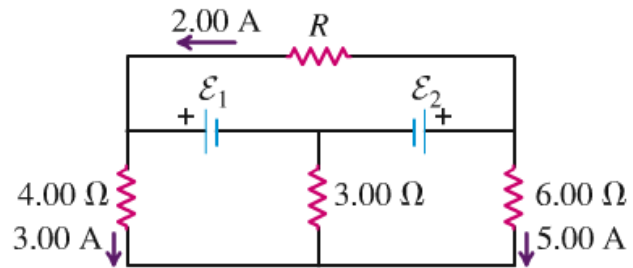
Student ID:

Signature:

In the circuit shown below;

- a) Find the current in the 3.00Ω resistor,
- b) Find the unknown emfs of \mathcal{E}_1 and \mathcal{E}_2 ,
- c) Find the resistance R .

Note that three currents are given.



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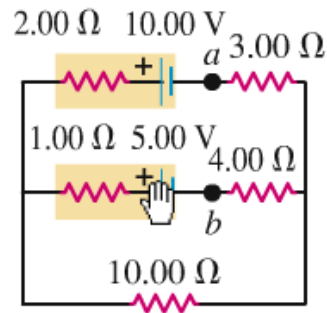
Name:

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Signature:

In the circuit shown below;

- Find the current in each branch,
- Find the potential difference V_{ab} of point a relative to point b .



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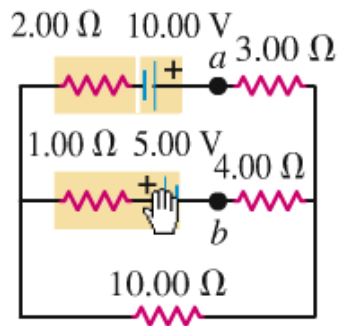
Name:

Student ID:

Signature:

In the circuit shown below,

- Find the current in each branch,
- Find the potential difference V_{ab} of point a relative to point b.



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In the circuit shown below,

- a) Find the current in each branch,
- b) Find the potential difference V_{ab} of point a relative to point b.

