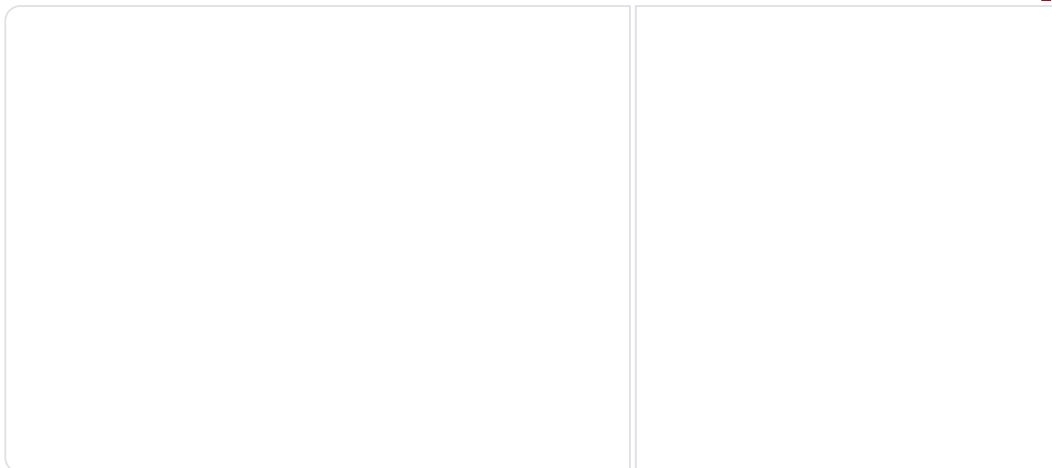


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Branch, Loop and Node Analyses Online Test – Multiple Choice Questions and Answers



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Congratulations – you have completed **Branch, Loop and Node Analyses Online Test Set 1**.

You scored **1** points out of **4** points total.

Your answers are shown below:

1. The expansion method for evaluating determinants is

- **good for second- and third-order determinants**
- good for only one determinant
- more flexible than the cofactor method

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- better than any other method

2. In assigning the direction of branch currents,

- the directions are not critical
- **the directions are critical**
- they must point into a node
- they must point out of a node

3. The branch current method uses

- **the superposition theorem and Thevenin's theorem**
- Kirchhoff's voltage and current laws
- Thevenin's theorem and Ohm's law
- Kirchhoff's current law and Ohm's law

4. The first row of a certain determinant has the numbers 3 and 5. The second row has the numbers 7 and 2. The value of this determinant is

- **29**
- 31
- -29
- -31

5. The first row of a certain determinant has the numbers 10 and 6. The second row has the numbers 3 and 5. The value of this determinant is

- 18
- 32
- **33**
- 50

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