

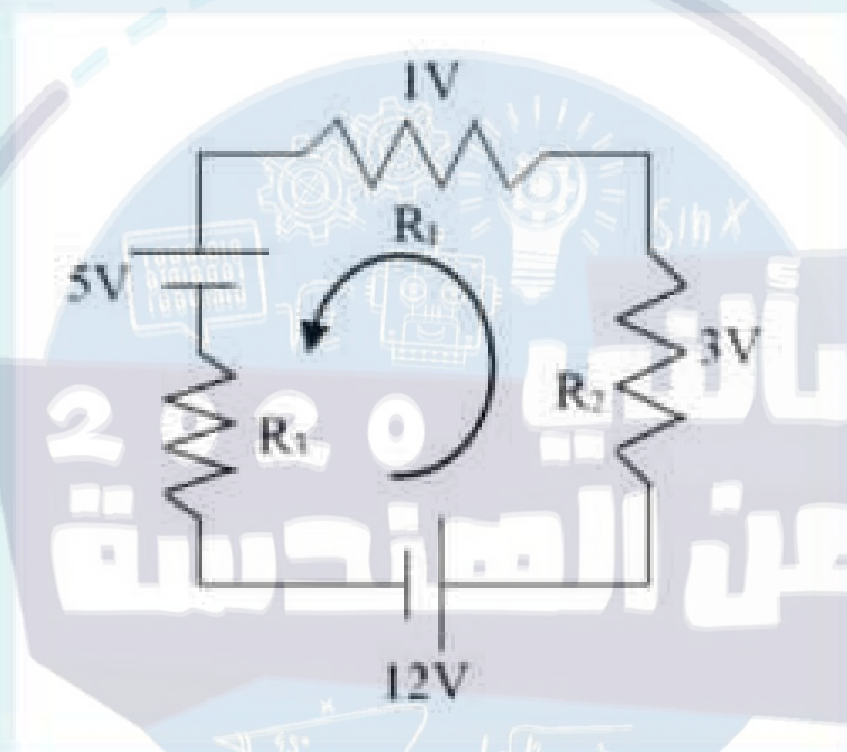
Kirchhoff's loop rule is a statement of conservation of:

Select one:

- a. charge
- b. momentum
- c. energy
- d. both a and c

[Clear my choice](#)

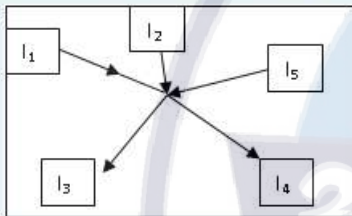
According to Kirchhoff's rules, the reading of a voltmeter (in V) across R_3 in the circuit shown to the right is:



Select one:

- a. 2
- b. 4
- c. 3
- d. 1

If a section of an electric circuit is as shown, then applying Kirchhoff's first law gives:

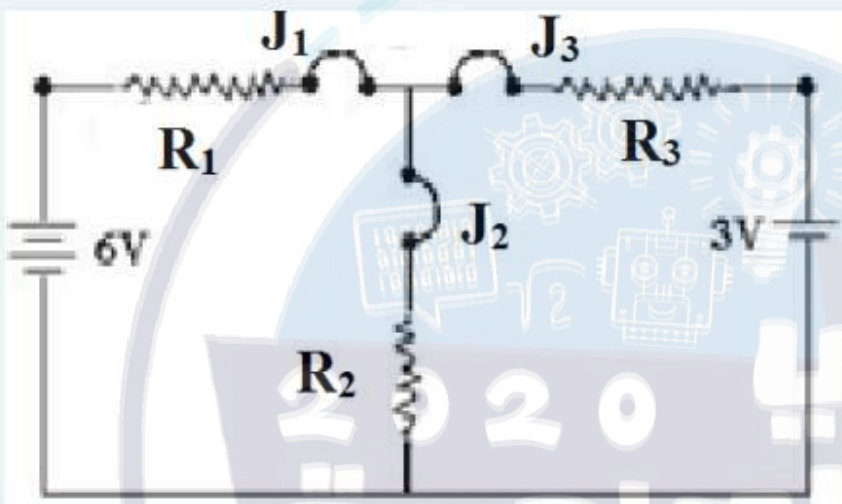


- $I_1 + I_3 + I_5 = I_2 + I_4$
- $I_1 + I_2 + I_4 + I_3 = I_5$
- $I_1 + I_3 + I_4 = I_2 + I_5$
- $I_1 + I_2 + I_5 = I_3 + I_4$
- $I_1 = I_2 + I_3 + I_4 + I_5$

[Clear my choice](#)

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2020

In the circuit shown, to measure the current through R_2



- J_1 is removed, J_2 is plugged in, and J_3 is replaced by an ammeter.
- J_1 is plugged in, J_3 is removed and J_2 is replaced by an ammeter.
- J_1 and J_2 are plugged in and J_3 is replaced by an ammeter.
- J_1 and J_3 are removed and J_2 is replaced by an ammeter.
- J_1 and J_3 are plugged in and J_2 is replaced by an ammeter.

Question 1

Not yet answered

Marked out of 4.00

Flag question

In the circuit below, $V_1 = 10\text{ V}$, $V_2 = 4\text{ V}$, and the potential drop across R_1 is measured to be 4 V . The difference (in V) as you go from point c to point a in the circuit is:

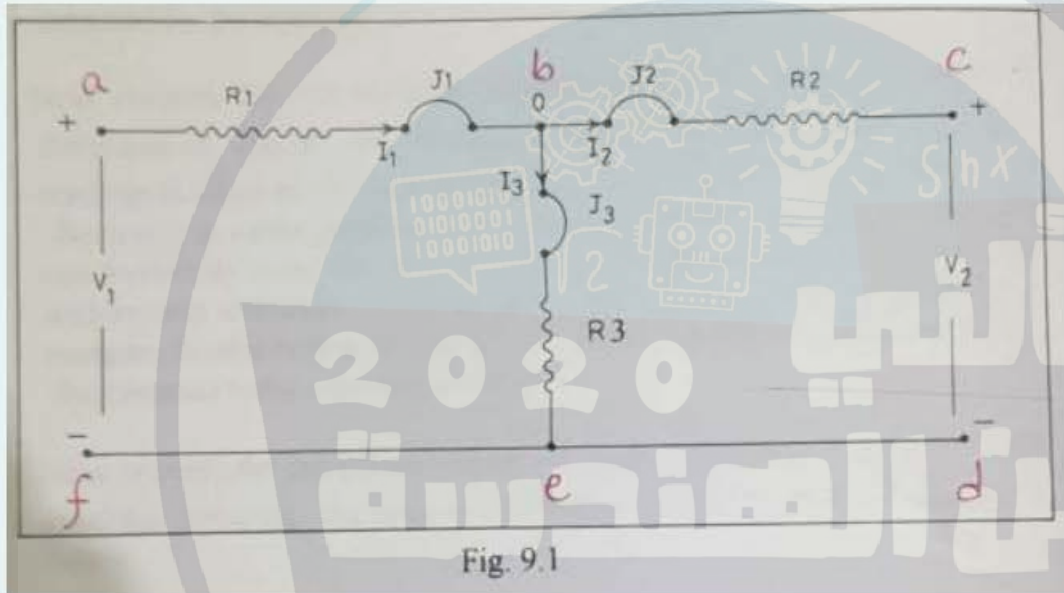


Fig. 9.1

- a. 14
- b. -6
- c. 4
- d. -4
- e. 6

Clear my choice

Question 2

Not yet answered

Marked out of 4.00

[Flag question](#)

In Kirchoff's Rules experiment, suppose you removed jumper J_1 in order to measure the current in resistance R_1 . During the time when J_1 is disconnected and the ammeter is not connected yet, which of the following is true?

- a. All the currents I_1 , I_2 , and I_3 have the same values as before disconnecting J_1 .
- b. The potential drops across resistors R_2 and R_3 do not change as a result of disconnecting J_1 .
- c. There is no current in R_1 and the currents I_2 and I_3 are different from their values before disconnecting J_1 .
- d. The currents I_2 and I_3 are not affected by disconnecting J_1 .
- e. I_1 has the same value as before disconnecting J_1 but I_2 and I_3 are different from their values before disconnecting J_1 .

[Clear my choice](#)