

23. A schematic diagram is shown below with a voltage source and three unknown circuit elements E1, E2, E3 and E4. Circle the correct answer for the questions below.

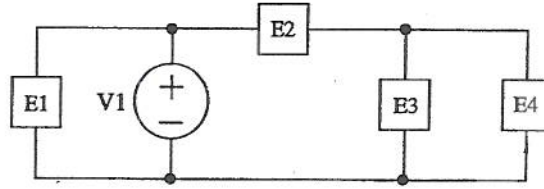


Fig. 4

- a) The voltage across E_3 _____ the voltage across E_4 .
1) is the same as
2) is different from
3) is unrelated to
- b) The current through E_3 _____ the current through E_4 .
1) is the same as
2) is different from
3) may be unrelated to
- c) The current through E_2 is equal to the current through E_3 plus the current through E_4 .
1) true
2) false
3) can't tell
- d) The voltage across V_1 is equal to the sum of the voltages across E_2 and E_3 or E_4 .
1) true
2) false
3) can't tell