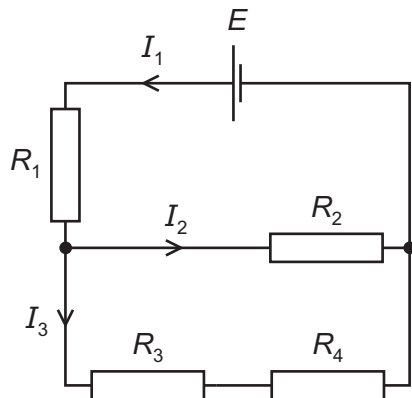


- 37** A cell of electromotive force E and negligible internal resistance is connected to a network of resistors of resistances R_1 , R_2 , R_3 and R_4 as shown.



The branches of the circuit have currents I_1 , I_2 and I_3 .

Which equation is correct?

- A** $I_1 R_1 + I_2 R_2 = I_3 R_3 + I_3 R_4$
- B** $I_2 R_2 - I_3 R_4 - I_3 R_3 = 0$
- C** $E = I_1 R_1 + I_2 R_2 + I_3 R_3 + I_3 R_4$
- D** $E = I_1 R_1 + I_2 R_2 - I_3 R_3 - I_3 R_4$