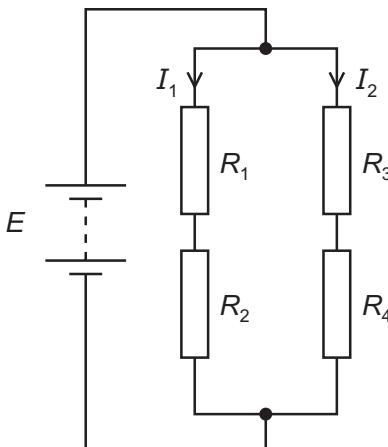


- 37 A battery of electromotive force (e.m.f.) E and negligible internal resistance is connected to four resistors of resistances R_1 , R_2 , R_3 and R_4 .



The currents I_1 and I_2 in the resistors are as shown.

Which equation is correct?

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