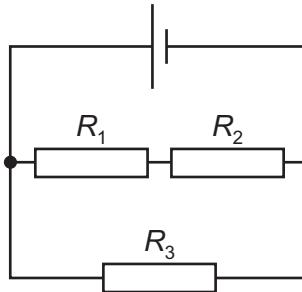


- 36 The diagram shows a circuit with a cell and three resistors with resistances R_1 , R_2 and R_3 .

The cell has negligible internal resistance.



The total resistance of the circuit is R_T .

Which equation for R_T is correct?

A $R_T = R_1 + R_2 + R_3$

B $R_T = \frac{1}{R_1 + R_2} + \frac{1}{R_3}$

C $\frac{1}{R_T} = \frac{1}{R_1 + R_2 + R_3}$

D $\frac{1}{R_T} = \frac{1}{R_1 + R_2} + \frac{1}{R_3}$