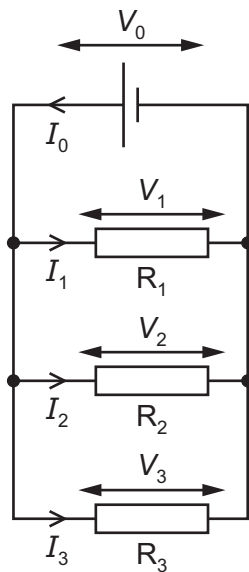


- 35** Three resistors,  $R_1$ ,  $R_2$  and  $R_3$ , are connected in parallel to a cell. The currents in the resistors are  $I_1$ ,  $I_2$  and  $I_3$ . The potential differences across the resistors are  $V_1$ ,  $V_2$  and  $V_3$ . The current in the cell is  $I_0$ . The potential difference across the cell is  $V_0$ , as shown.



Which equation can be obtained by applying Kirchhoff's second law to the circuit?

- A**  $I_0 = I_1 = I_2 = I_3$
- B**  $I_0 = I_1 + I_2 + I_3$
- C**  $V_0 = V_1 = V_2 = V_3$
- D**  $V_0 = V_1 + V_2 + V_3$