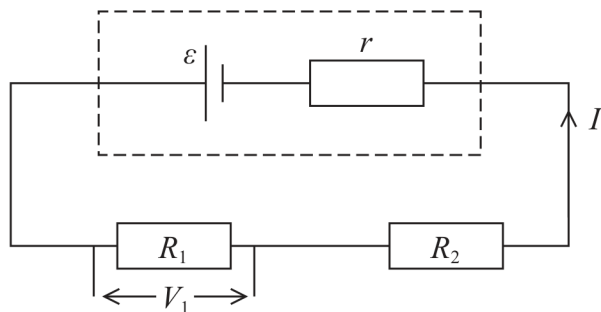


- 3 The diagram shows a cell of e.m.f. ε and internal resistance r . The cell is connected in series with two resistors of resistance R_1 and R_2 . The potential difference across R_1 is V_1 . The current in the circuit is I .



Which of the following expressions is correct?

- ☒ A $\varepsilon = V_1 + Ir$
- ☒ B $\varepsilon = IR_1 + Ir$
- ☒ C $\varepsilon = IR_2 + Ir$
- ☒ D $\varepsilon = V_1 + IR_2 + Ir$

(Total for Question 3 = 1 mark)