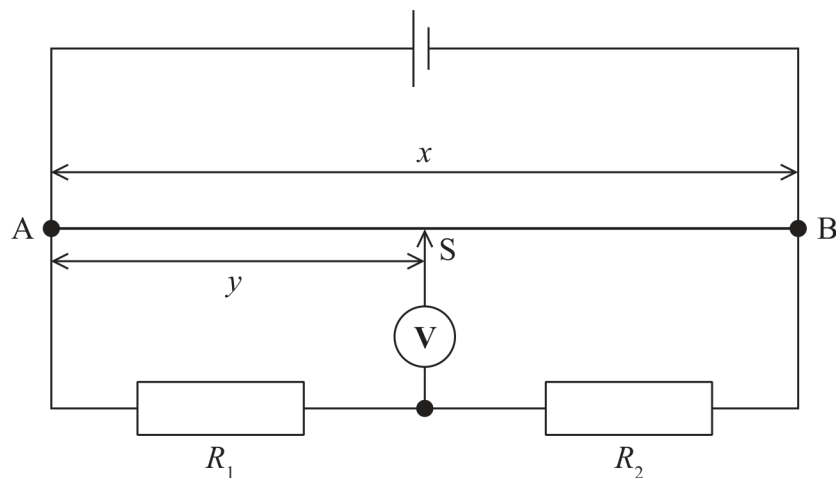


- 8 A current-carrying wire AB of length x and uniform diameter is connected in a circuit as shown.



The slider S is moved along the wire until the reading on the voltmeter is 0 V.

Which of the following equations is correct?

- ☐ A $\frac{y}{x} = \frac{R_1}{R_2}$
- ☐ B $\frac{y}{x - y} = \frac{R_1}{R_2}$
- ☐ C $\frac{x}{y} = \frac{R_1}{R_2}$
- ☐ D $\frac{x}{y} = \frac{R_1}{R_1 + R_2}$

(Total for Question 8 = 1 mark)