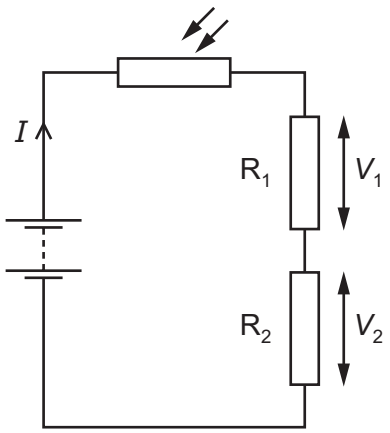
34 In the circuit shown, a light-dependent resistor (LDR) is connected to two resistors R_1 and R_2. The potential difference (p.d.) across R_1 is V_1 and the p.d. across R_2 is V_2. The current in the circuit is I.



Which statement about this circuit is correct?

A The current I increases when the light intensity decreases.

B The LDR is an ohmic conductor.

C The p.d. V_2 increases when the light intensity decreases.

D The ratio $\frac{V_1}{V_2}$ is independent of light intensity.

Space for working