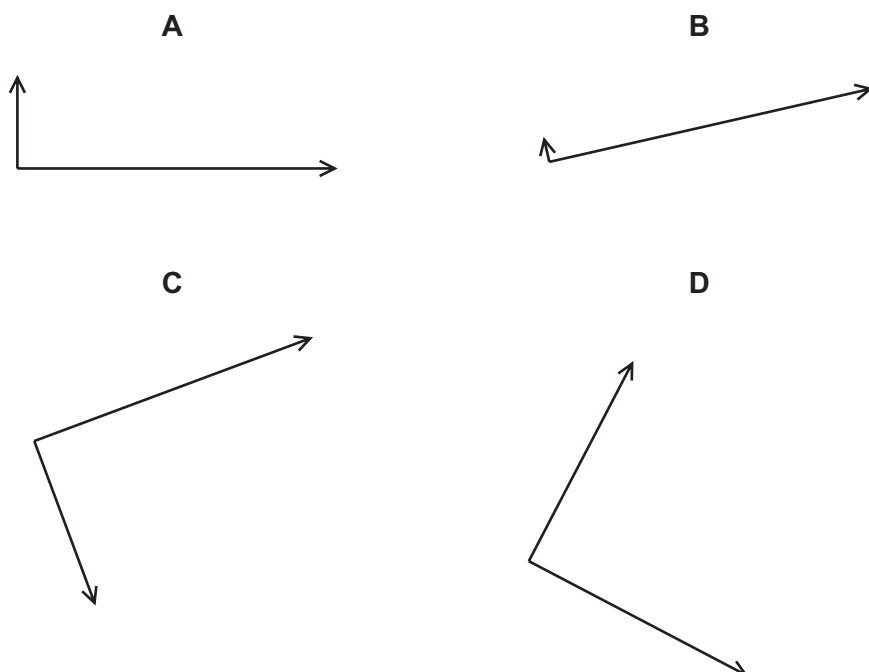


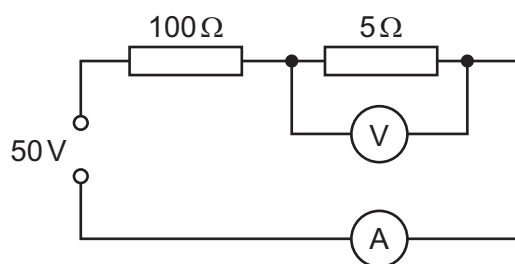
- 4 The arrow represents the vector R.



Which diagram does **not** represent R as two perpendicular components?



- 5 A power supply of electromotive force (e.m.f.) 50 V and negligible internal resistance is connected in series with resistors of resistance 100Ω and 5Ω , as shown.



A voltmeter measures the potential difference (p.d.) across the 5Ω resistor and an ammeter measures the current in the circuit.

What are suitable ranges for the ammeter and for the voltmeter?

| | ammeter range / A | voltmeter range / V |
|----------|----------------------|------------------------|
| A | 0–0.1 | 0–1 |
| B | 0–0.1 | 0–3 |
| C | 0–1.0 | 0–1 |
| D | 0–1.0 | 0–3 |