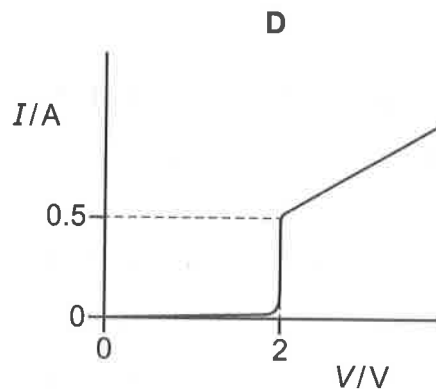
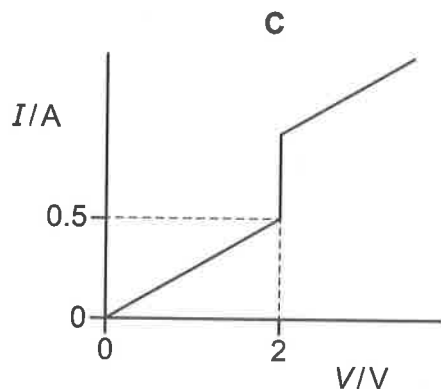
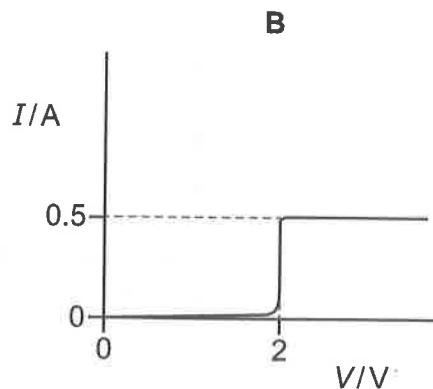
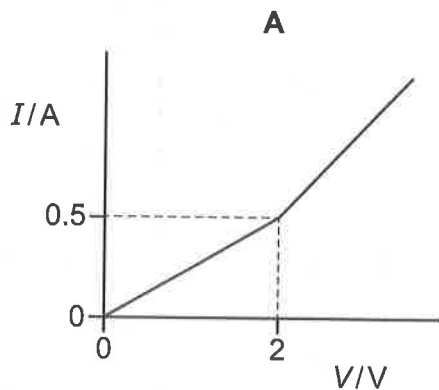


- 24 An electronic component conducts a constant current when the potential difference (p.d.) across it is at least 2.0 V. Below 2.0 V, the component is non-conducting. This component is connected in parallel with a resistor of resistance $4.0\ \Omega$.

Which graph shows how the total current I varies with p.d. V across the parallel arrangement?



- 25 A vertical circular coil carries a current I in a clockwise direction when it is viewed from above. The coil is placed in a uniform magnetic field of strength B directed vertically downwards. The coil has radius r and N turns. The magnetic flux through the coil is Φ .