

36 A typical mobile phone battery has an e.m.f. of 5.0 V and an internal resistance of $200\text{ m}\Omega$.

What is the terminal p.d. of the battery when it supplies a current of 500 mA?

A 4.8 V

B 4.9 V

C 5.0 V

D 5.1 V

37 The circuit shown contains a battery, Q , that is connected in parallel with the other components.