

**The University of Sheffield**  
**Department of Electrical and Electronic Engineering**

## EEE117 Homework 1

For the eight resistor combinations below, work out the total effective resistance between terminals A and B. A 100 V dc source is connected between terminals A and B. Work out the power dissipated in the 1 k $\Omega$  resistor in circuit 3, the 100  $\Omega$  resistor in circuit 5, the 2 k $\Omega$  resistor in circuit 7 and the 10  $\Omega$  resistor in circuit 8.

