## EE40 Spring 2008 Homework 2 Due Friday $2 / 85$ p.m. sharp. No extensions!

1) Find the equivalent resistance between the terminals $a$ and $b$ for the following networks:
a)

b) Same network as above, except that there is also a short circuit between nodes c and d.
2) Hambley P 2.17
3) Hambley $P 2.24$
4) Hambley P 2.32
5) Hambley P 2.49
6) Hambley P 2.52, except that you should choose as the reference the node where the $2 \Omega$ and $10 \Omega$ resistors and the current sources meet. Find the graph of the circuit, choose a tree that contains the voltage source, and use a supernode.
7) Solve for the node voltages

8) Hambley 2.64
9) Hambley 2.72. First find the graph of the circuit, and then choose a tree that does not contain the current source, before starting mesh analysis.
10) Hambley 2.90
