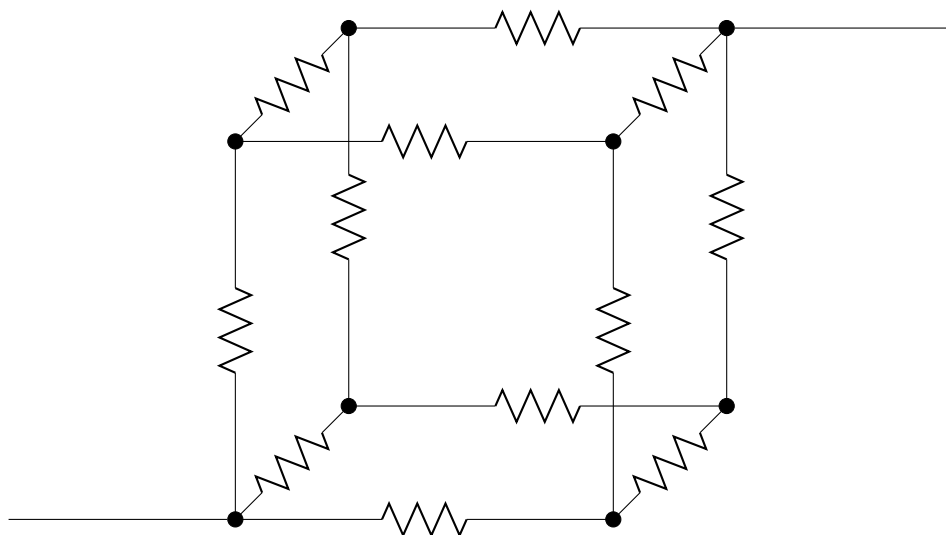


# Cruel and Unusual DC Circuits\*

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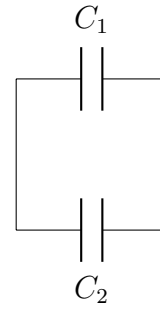
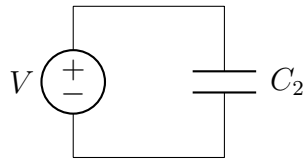
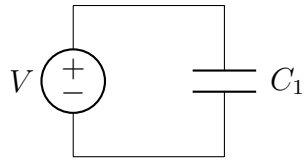
1. Find the equivalent resistance of the following resistor network, given that each resistor has a resistance  $R$ .



2. Two capacitors, with capacitances  $C_1$  and  $C_2$ , are charged separately by a voltage source  $V$ . They are then connected in series with no voltage source. Find the ratio of the energies stored originally to the energy stored once the capacitors are connected.

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\*Some problems adapted from MIT 8.02 course notes.



3. Find currents everywhere.

