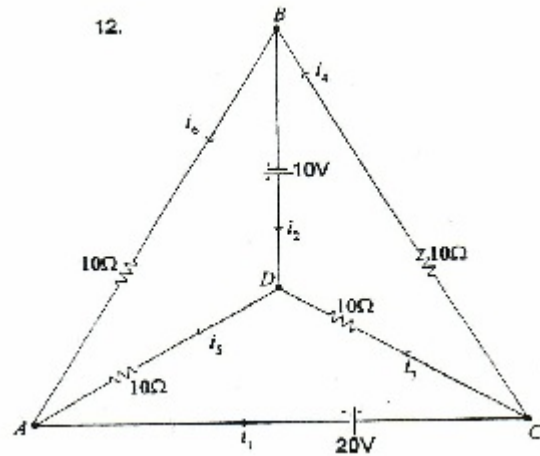
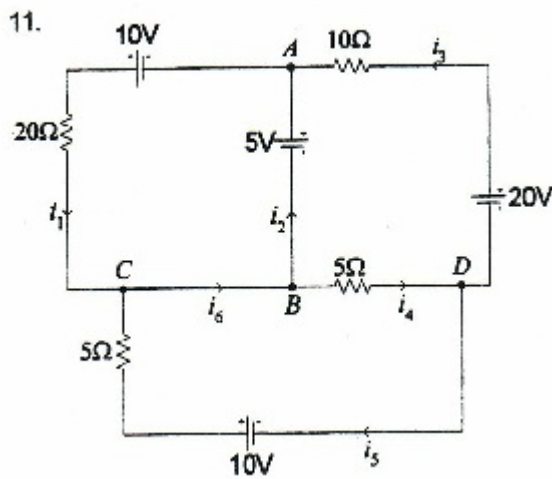
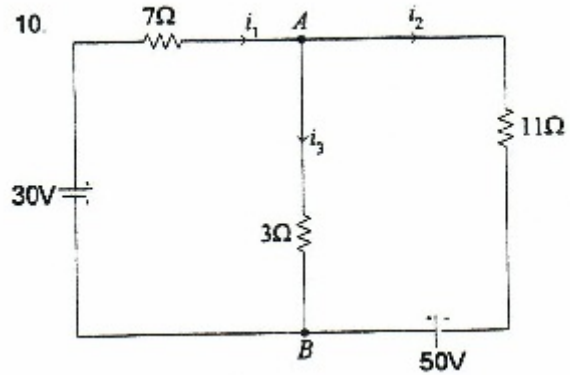
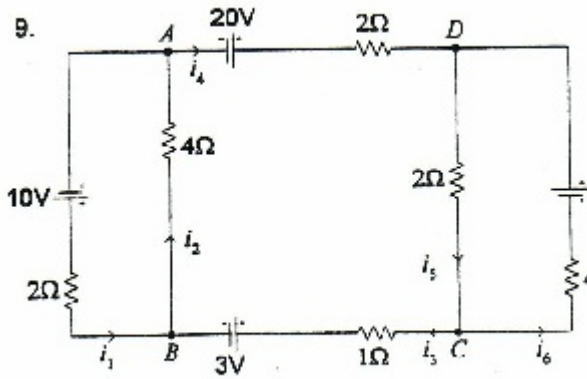


Problem Set II

Set up a system of equations needed to solve for the currents in the following circuits. Place the equations in an augmented matrix.

Use MAPLE to solve the system. (See directions for using MAPLE).



Answers (in amperes):

9)

$$\begin{aligned} i_1 &= 1 \\ i_2 &= 2 \\ i_3 &= 1 \\ i_4 &= 1 \\ i_5 &= 3 \\ i_6 &= 2 \end{aligned}$$

11)

$$\begin{aligned} i_1 &= \frac{3}{4} \\ i_2 &= -\frac{1}{20} \text{ Interpret!} \\ i_3 &= \frac{4}{5} \\ i_4 &= \frac{7}{5} \\ i_5 &= \frac{3}{5} \\ i_6 &= \frac{27}{20} \end{aligned}$$