**Important Remarks**

- Homework is due on Sept. 10th, 2013 at the beginning of class

- **For all problems, keeping your work in fractions will produce easier, more accurate results.**

- Start early and get help if you need it

- Start a new page per problem

- Show all the work

- Specify all the units

- Circle your answers

- Staple pages

1. Given figure below, find I and V using circuit reduction and other techniques.
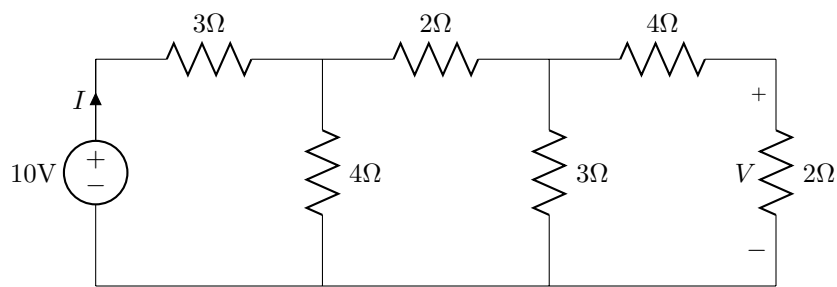

2. Given the figure below, find I and V using circuit reduction and other techniques.
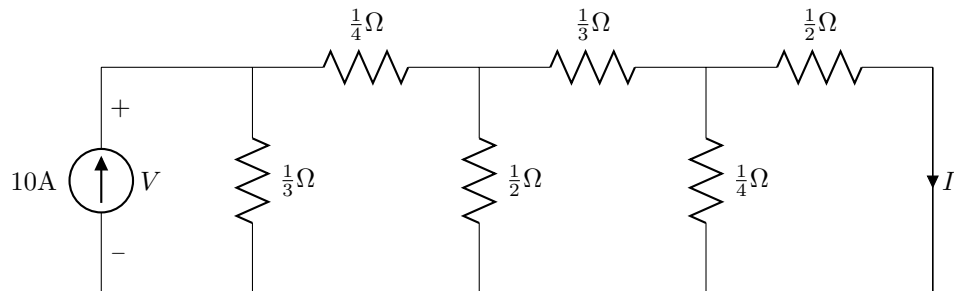
3. Given the figure below, $V_s = 5$V, $R_1 = 375\Omega$, $R_3 = 25\Omega$. With a multimeter we measure 1.25V at N_2 with respect to ground. Find the voltage at N_1 (w.r.t. Gnd), R_2, V_1, I_1, and I_2 using nodal analysis and other techniques.
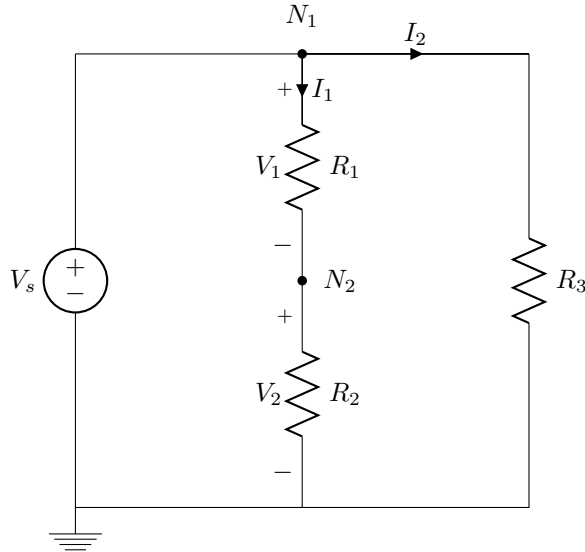
4. Given the figure below, $V_s = 10$V. With a multimeter we measure (w.r.t. Gnd) 4V at N_1 and 7V at N_2. Find V_1 and V_2.
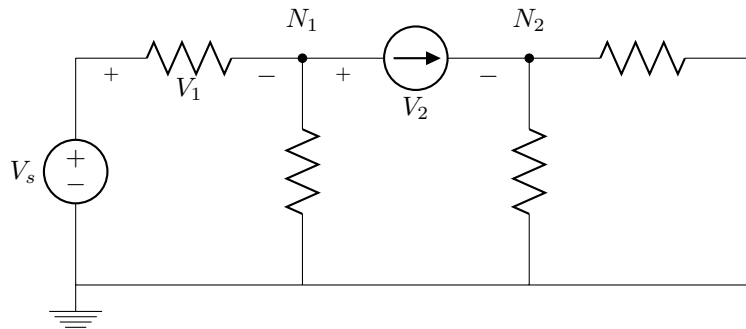
5. In the figure below, $I = 8A$. With a multimeter we measure (w.r.t. Gnd) 60V at N_2. Using nodal analysis and other techniques, find V_s, V_1, V_2, and the measurement we would expect to get at N_1 (w.r.t. Gnd).