MATD 0370 - Elementary Algebra - Summer	Name
Written Homework #2 - Show all work to receive credit	

In order to receive full credit for problems 1 - 4, you need to:

- a) Define your variables
- b) Set up your equation(s)
- c) Solve and show your work
- d) Identify your final answer using appropriate labels and/or units

## **Applications with Percent (Section 2.4)**

1) Addie has completed 30 hours, which is 24% of the hours she needs to graduate with a bachelor's degree. How many total hours does she need to graduate?

## **Word Problems (Section 2.5)**

2) The second angle of a triangular kite is four times as large as the first. The third angle is 5° more than the sum of the other two angles. Find the measure of the second angle.

3) Laura paid \$219.45, including 5% tax, for a printer. How much did the printer itself cost?

4) Fine Line Trucks rents an 18-ft truck for \$42 plus 35¢ per mile. Judy needs a truck for one day to deliver a shipment of plants. How far can she drive and stay within a budget of \$70?

Solving a Formula for a Variable (Section 2.3)

5) Solve for 
$$q$$
:  $p = \frac{r - q}{2}$ 

## **Solving Inequalities (Section 2.6)**

6) Solve the inequality and write your answer using **set-builder notation**. Graph your answer on a number line.

$$-\frac{5}{8} < -10y$$