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 $5^{\circ}$ 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 中 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 $q$ : $\quad p=\frac{r-q}{2}$

## Solving Inequalities (Section 2.6)

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

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

