Math 8-1 **Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Project #6 December 2014**

Ms. Dowson

*Due*: **Tuesday December 9, 2014**

*Spot Check*: Last day, **Monday December 8, 2014 by NOON**

1. Write the equation in standard form:
	1. $3.5y=17x-4.5$
	2. $-6y=-\frac{5}{8}x-\frac{3}{8}$
2. Evaluate the function for the given values of *x*.
	1. $f\left(x\right)=2x^{2}-3$ *x*=-2 and *x*=2
	2. $f\left(x\right)=3(x^{2}+1)$ *x*=-2 and *x*=7
3. Graph the following lines using the intercepts (on the attached graph paper):
	1. $2x-3y=6$
	2. $-4x+3y=24$
4. Write the equation for a line that passes through the points (-2,3), (-2,-5)
5. Two points on a best fit line for a set of data (3.4, 10) and (4.4, 8). Find the equation of the line of best fit.
6. Solve the inequality. Then graph the solution
	1. $15x-4\left(3x-1\right)\geq 5x+6$
	2. $6c\leq -12$
7. Kathryn put her nickels and dimes in a piggy bank. One day she emptied it and counted 25 coins, which totaled $2.05. Using a linear system, how many dimes did Kathryn have?
8. Graph the system of equations (on graph paper). Then find the solution

$$2x+3y=6$$

 $x-y=3$

1. The sum of two numbers is 2. Their difference is 10. Using a linear system, find the numbers.