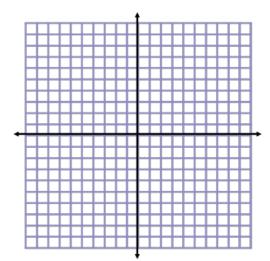
Name _

1. Solve the system of inequalities equations graphically.

$$y \le -3x + 7$$
$$-2x + y \le 2$$

2. For each of following points, circle if the point is either a solution or not a solution for the system of inequalities in problem 1.

a.	(-1,3)	Solution	Not a Solution
b.	(0,2)	Solution	Not a Solution
c.	(2, -3)	Solution	Not a Solution



3. Use quadratic formula to solve for the x-intercepts $y = x^2 + 10x + 28$

- 4. Use the chart below to complete the following tasks.
 - a. Write a linear equation in slope-intercept form that shows the relationship between age and blood pressure.

Age	Blood Pressure
25	108
35	122
45	136

- b. Use your equation to predict the blood pressure of a person who is 60 years old.
- c. Use your equation to estimate the age of a person with a blood pressure of 100.

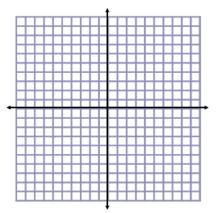
Use the following equations to complete problems 5-7.

$$\begin{aligned} x - 3y &= -6\\ 4x - 2y &= 6 \end{aligned}$$

5. Solve the system of equations by substitution.

6. Solve the system of equations by elimination.

7. Solve the system of equations by graphing.



8.	Prove the following equations are equivalent. $f(x) = 2x^2 + 8x - 64$	9. Simplify. a. <i>i</i> ¹³¹
	$f(x) = 2(x+2)^2 - 72$	b. <i>i</i> ²³⁴
	f(x) = 2(x - 4)(x + 8)	c. <i>i</i> ¹⁸⁰
		d. <i>i</i> ⁵⁷