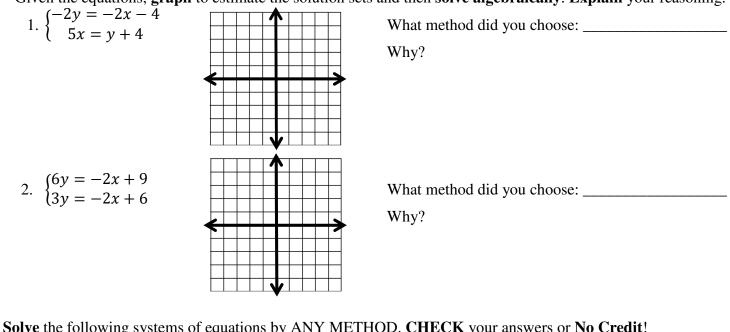
4F System & Inequalities MORE Practice SHOW YOUR WORK FOR FULL CREDIT. NO WORK IN PEN.

Name: ______ Per: _____

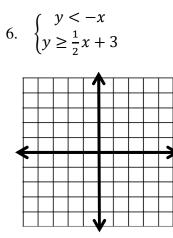
Given the equations, graph to estimate the solution sets and then solve algebraically. Explain your reasoning.



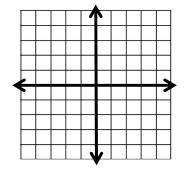
borve the following systems of equations by ANT r	VIETHOD. CHECK your answers of the Clean
3. $\begin{cases} y+1 = 2x \\ 3y - 6x = 3 \end{cases}$ 4. $\begin{cases} x+1 = \\ x = 3y \end{cases}$	5. $\begin{cases} -3x - 4y = 2\\ 3x + 3y = -3 \end{cases}$

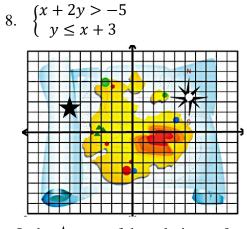
Solution:	Solution:	Solution:
Check:	Check:	Check:

Solve the following systems of inequalities by graphing. Circle the solution.



 $7. \quad \begin{cases} y \le -1\\ x + 2y \ge -5 \end{cases}$



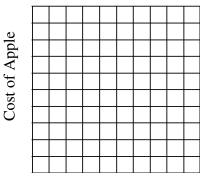


a. Is the \bigstar part of the solution set?

State **how many** solutions the following set of equations will have and **how you know**.

9.
$$\begin{cases} y - 2(2x - 1) = 9\\ y = 4x + 7 \end{cases}$$
 10.
$$\begin{cases} y + 1 = -\frac{1}{3}x\\ 3y = -x + 1 \end{cases}$$
 11.
$$\begin{cases} y + 1 = -\frac{1}{3}x\\ 3y = -x + 1 \end{cases}$$

- 12. Tara and Brooklyn each improved their yards by planting flowers and shrubs. They bought their supplies from the same store. Tara spend \$39 on 6 flats of flowers and 5 shrubs. Brooklyn spent \$66 on 9 flats of flowers and 10 shrubs. What is the cost of one flat of flowers and one shrub?
 - a. Define your variables.
 - b. Write TWO equations
 - c. Solve the system of equations
 - d. What's the cost of one flat of flowers? _______e. What is the cost of one shrub? ______
- 13. At Maverick Boden and Cameron are getting snacks. Boden buys 3 soft drinks and 2 hot dogs at a cost of \$7.70, while Cameron buys 2 soft drinks and 1 hot dog at the cost of \$4.55.
 - a. Define your variables.
 - b. Write TWO equations
 - c. Solve the system of equations
 - d. How much does one hot dog cost? _____
- e. What is the cost of one soft drink?
- 14. Cody and Abby are selling pies for a band fundraiser. Customers can buy blueberry pies and apple pies.
 Cody sold 10 blueberry pies and 2 apple pies for *at least* than \$80. Abby
 sold 4 blueberry pies and 3 apple pies for *no more than* \$72.
 - a. Define your variables:
 - b. Write two inequalities
 - c. Find the intercepts to each inequality.
 - d. Using the intercepts, graph the system showing the possible solutions.
 - e. Could the Apple pies have cost \$5 and the Blueberry have cost \$15?



Cost of Blueberry