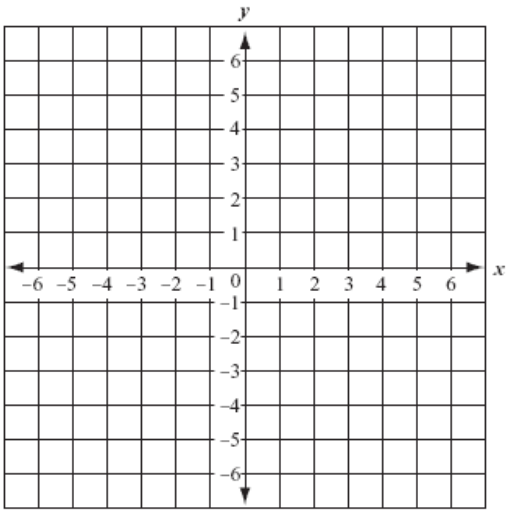
Name _____Date _____ Per _____

Systems of Equations and Inequalities Practice

1. Solve the system by graphing

$y = 3x - 1$

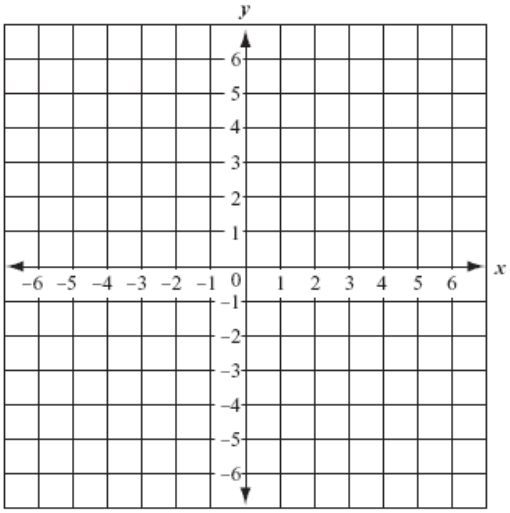
$y = -x + 3$



2. Solve the system by graphing

$-x + 2y = -2$

$y = \frac{1}{2}x + 3$



Solve each system by substitution.

3. $y = 3x + 11$

$y = -2x + 1$

4. $4x - y = -12$
$-6x + 5y = -3$

5. $y = 5x - 8$
$5y = 2x + 6$

Solve each system using elimination.

6. $y = -3x + 5$
$y = -4x - 1$

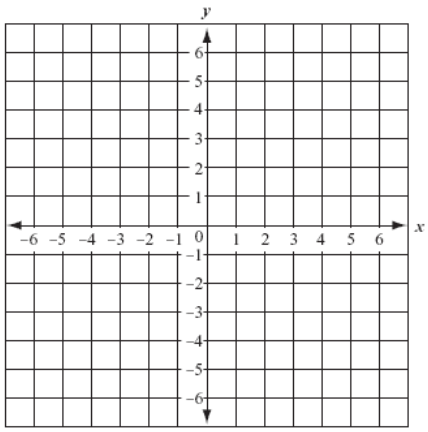
7. $2x - 3y = 5$
$x + 2y = -1$

8. $x + 4y = 12$
$2x - 3y = 2$

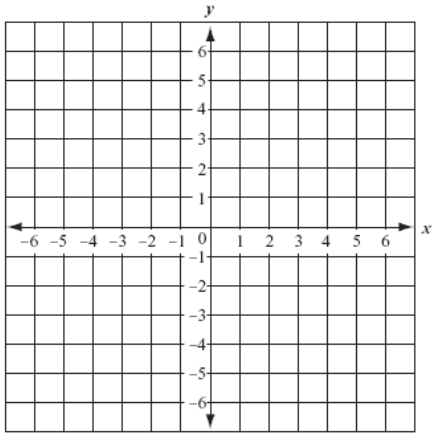
9. $\begin{aligned} 3x - 3y &= 3 \\ x &= y + 1 \end{aligned}$

Graph each inequality.

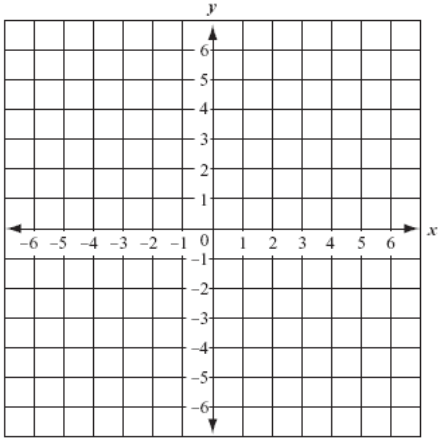
10. $y \geq 4x - 5$



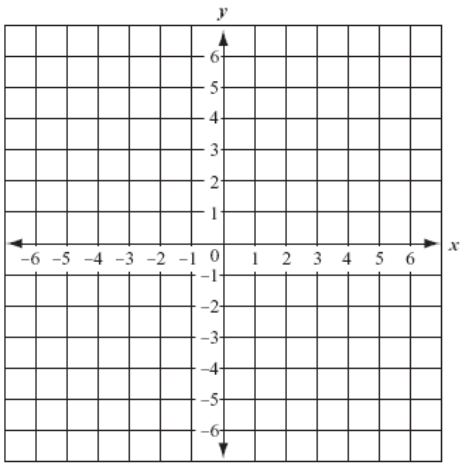
11. $y < -3x + 5$



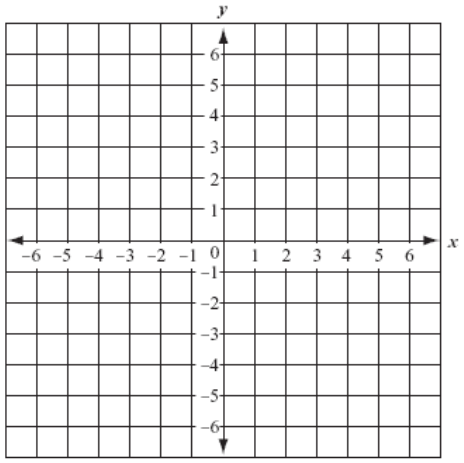
12. $y > -\frac{2}{3}x - 1$



13. $y < 2x + 4$
$-3x - 2y \geq 6$



14. $y \leq -\frac{1}{3}x + 7$
$y \geq -x + 1$



Bonus

Write the inequality that has the solution described.

The point (7, 12) and (-3,-8) lie on the boundary line, but neither point is a solution. The point (1, 1) is also a solution.