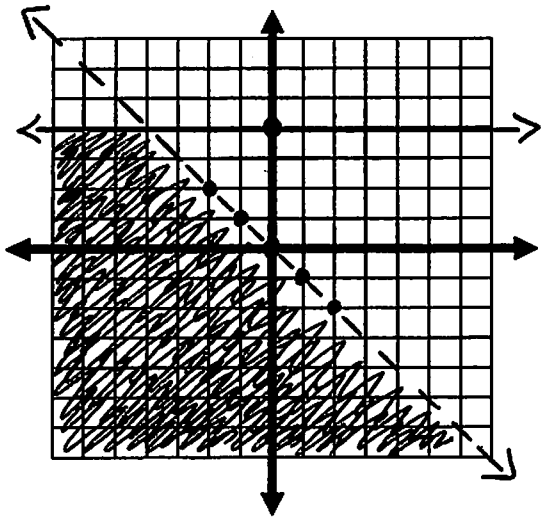


# Solving Systems of Linear Inequalities Practice Worksheet

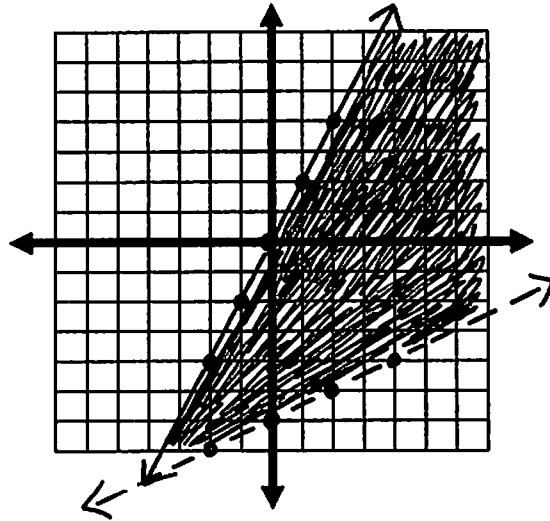
Name Key \_\_\_\_\_ Class Period \_\_\_\_\_

Solve by graphing.

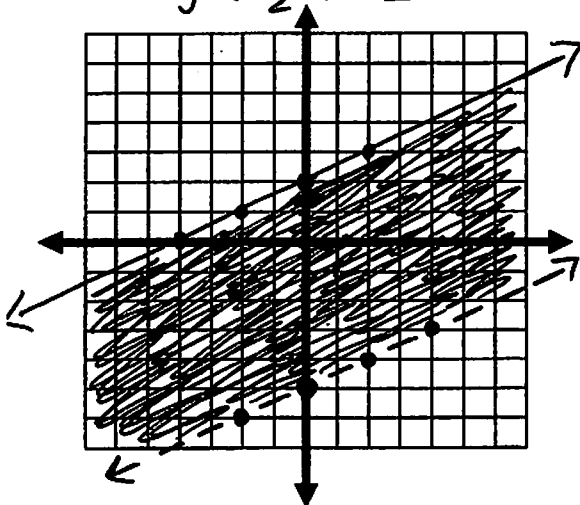
1.  $y \leq 4$   
 $y < -x$



2.  $y \leq 2x$   
 $2y - x > -12$       $2y > x - 12$   
 $y > \frac{1}{2}x - 6$

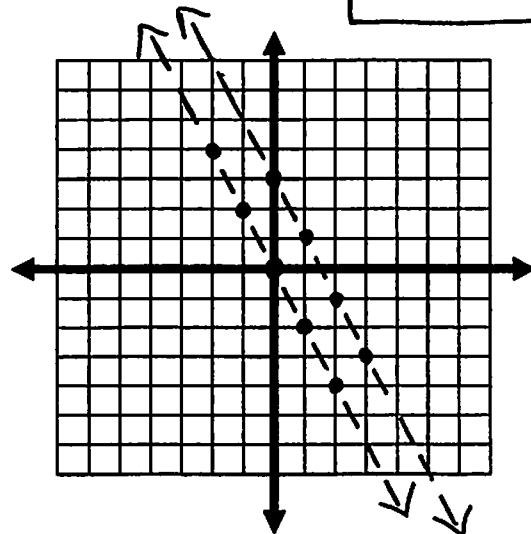


3.  $x - 2y - 10 < 0$       $-2y < -x + 10$   
 $x - 2y + 4 \geq 0$       $y > \frac{1}{2}x - 5$   
 $-2y \geq -x - 4$   
 $y \leq \frac{1}{2}x + 2$

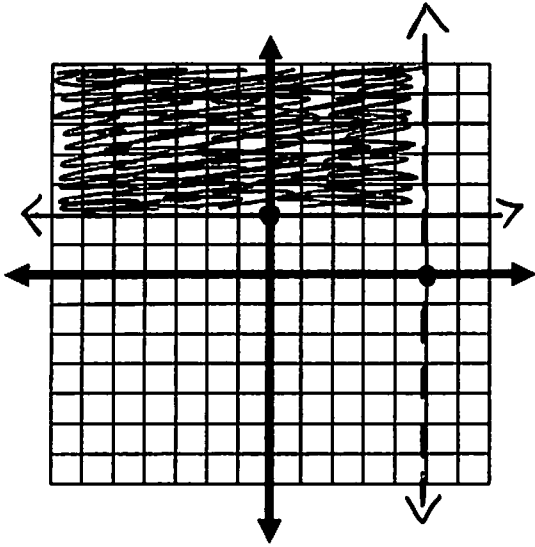


4.  $y < -2x$   
 $y > -2x + 3$

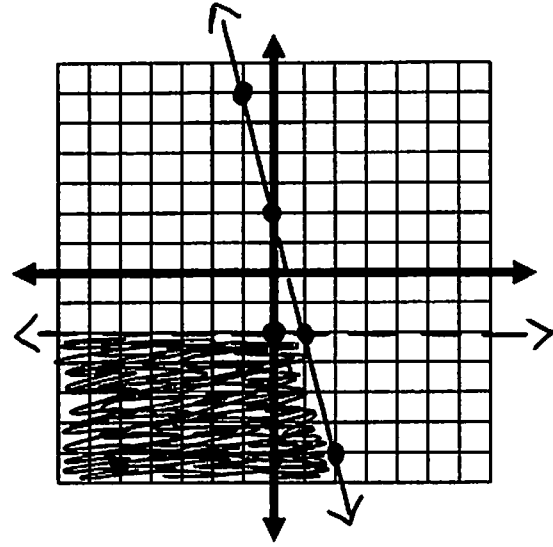
No Solution



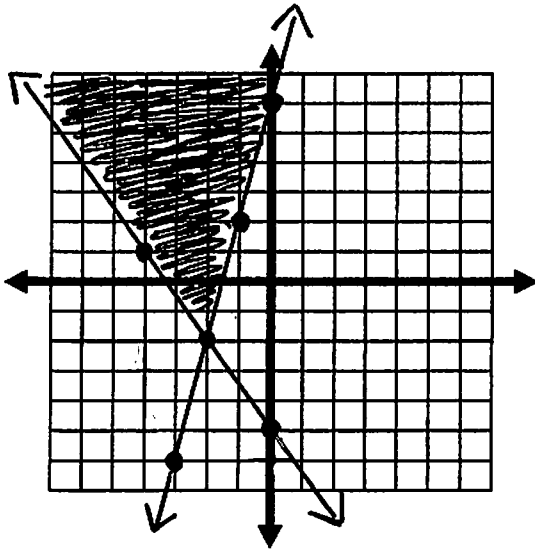
5.  $x < 5$   
 $y \geq 2$



6.  $y < -2$   
 $y \leq -4x + 2$



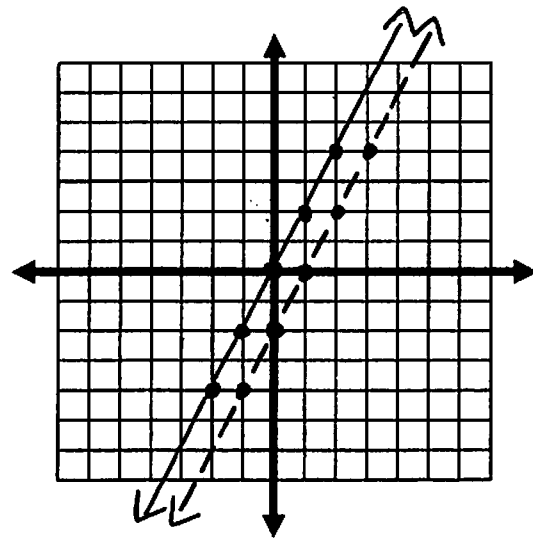
7.  $4x - y \leq -6$   
 $3x + 2y \geq -10$



$$\begin{aligned}
 -y &\leq -4x - 6 & 2y &\geq -3x - 10 \\
 y &\geq 4x + 6 & y &\geq -\frac{3}{2}x - 5
 \end{aligned}$$

8.  $4x - 2y \leq 0$   
 $2x - y > 2$

No Solution



$$\begin{aligned}
 -2y &\leq -4x & -y &> -2x + 2 \\
 y &\geq 2x & y &< 2x - 2
 \end{aligned}$$