

3-3 Solving Systems of Inequalities

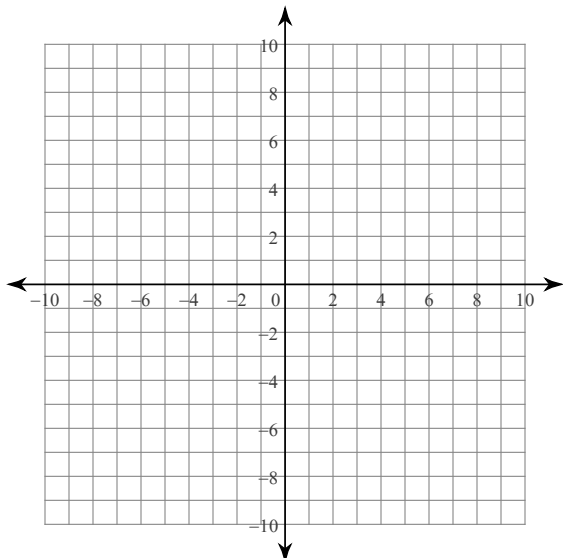
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Name _____ Date _____ Period _____

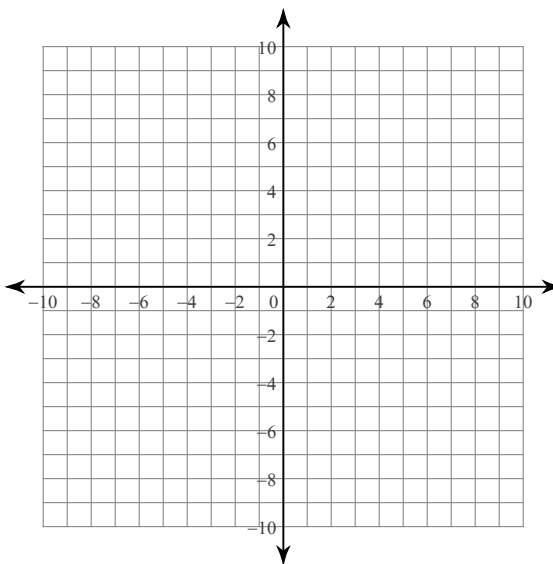
Sketch the solution to each system of inequalities.

1) $y > \frac{5}{2}x + 6$

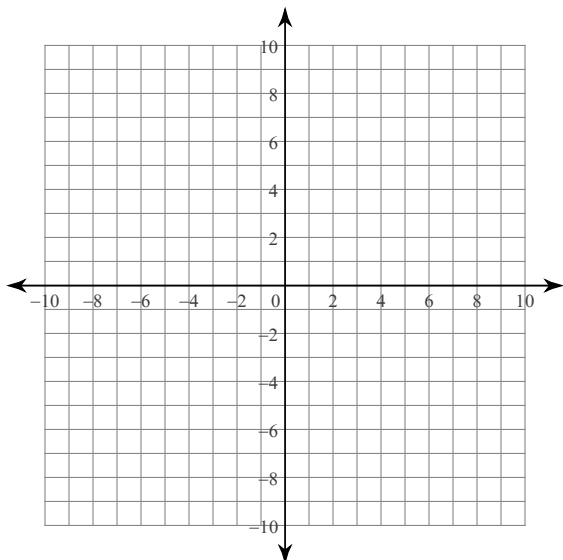
$y \geq -x - 1$



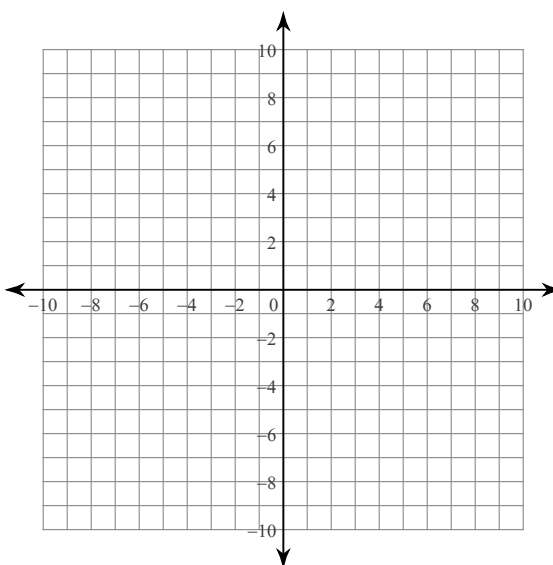
2) $y > 5x + 4$
 $y \geq x - 4$



3) $y \geq 5$
 $y \geq -x + 3$

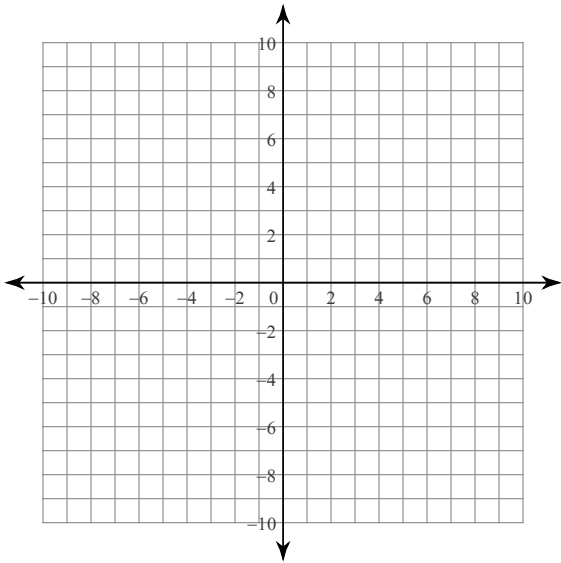


4) $y < -\frac{3}{2}x - 1$
 $y < -\frac{1}{2}x + 5$



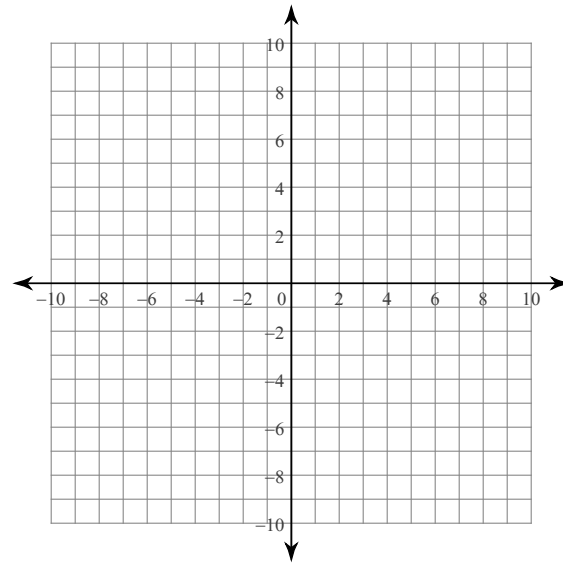
$$5) y \leq -\frac{1}{2}x - 2$$

$$y > 2x - 7$$



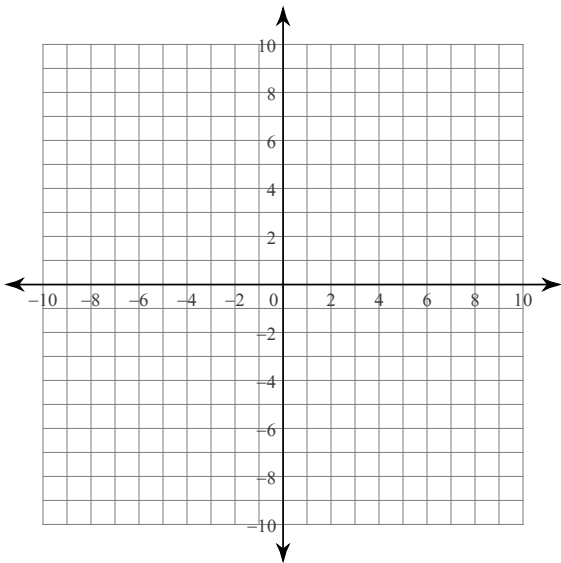
$$6) y \leq -\frac{3}{2}x - 8$$

$$y > \frac{5}{6}x + 6$$



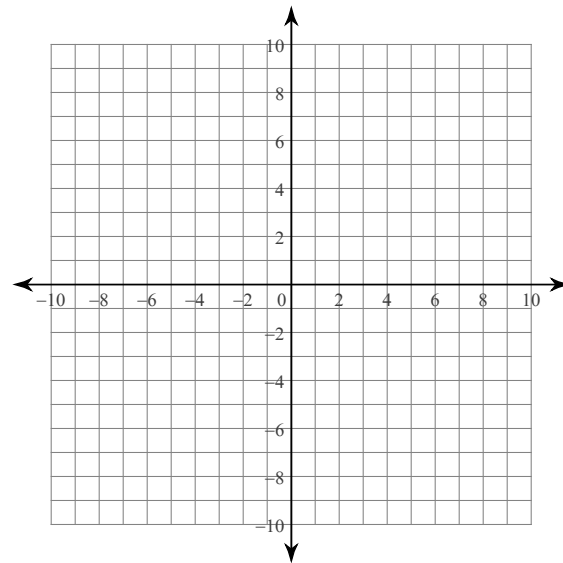
$$7) 3x + 2y \leq 12$$

$$x - 2y \leq 12$$

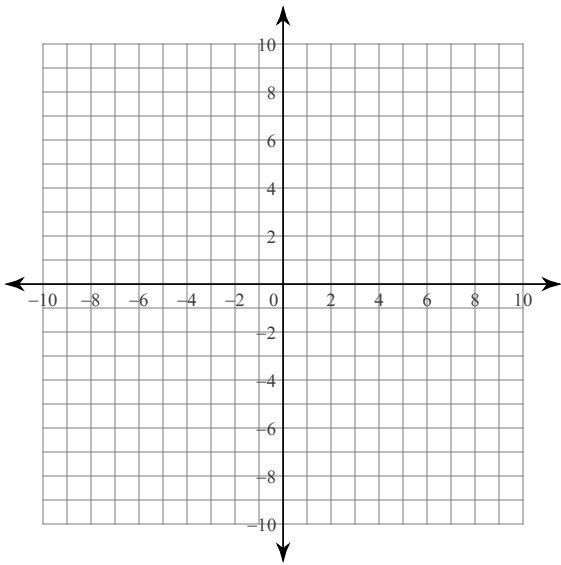


$$8) 10x - 7y < 21$$

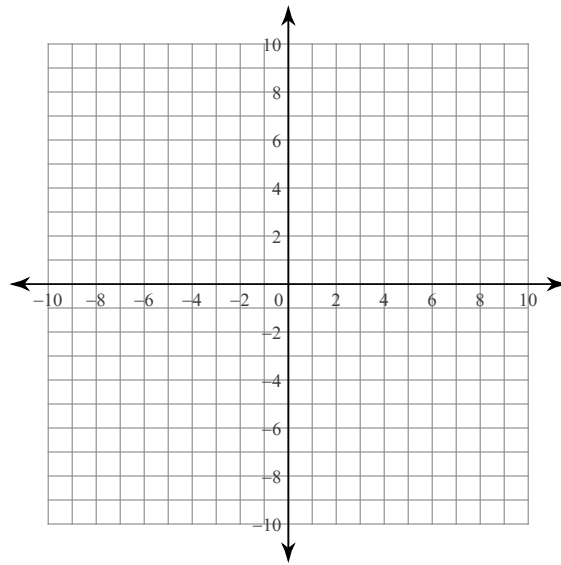
$$x + 7y \leq 56$$



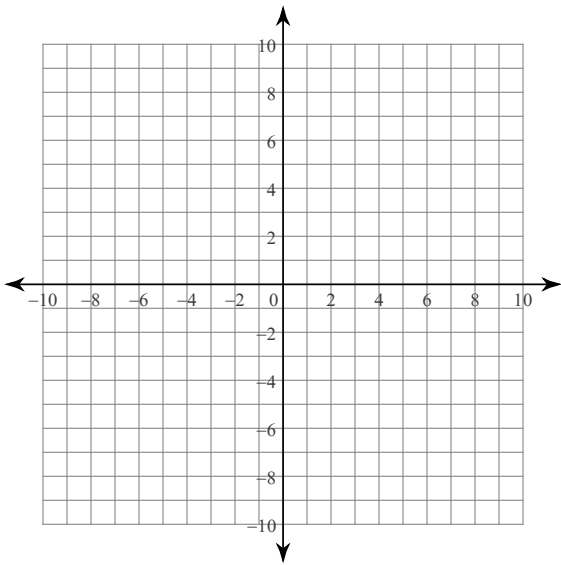
9) $2x + y \leq 8$
 $x - 2y \geq -6$



10) $x + 3y \geq 15$
 $5x - 3y < 21$



11) $x + 4y \leq -28$
 $13x - 4y \leq -28$



12) $x - 2y \leq 16$
 $5x + 2y \leq -4$

