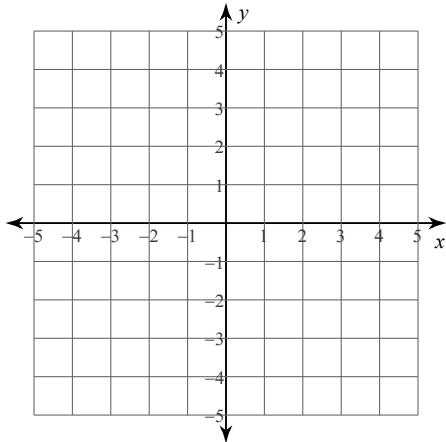


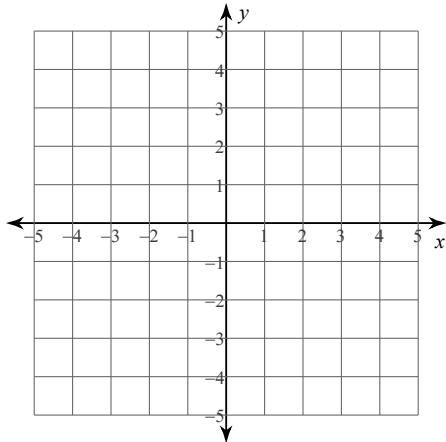
## Solving Systems of Inequalities

**Sketch the solution to each system of inequalities.**

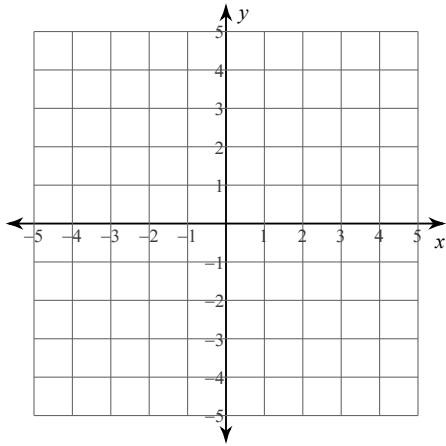
1)  $y \leq -x - 2$   
 $y \geq -5x + 2$



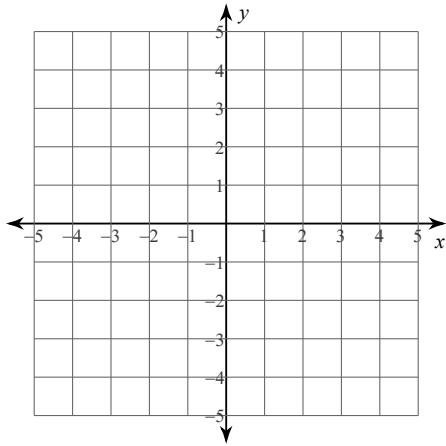
2)  $y > -x - 2$   
 $y < -5x + 2$



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

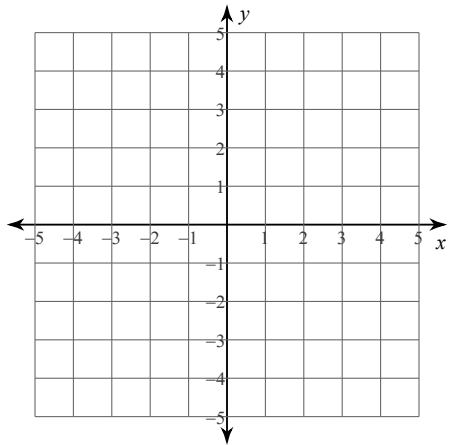


4)  $x \leq -3$   
 $y < \frac{5}{3}x + 2$



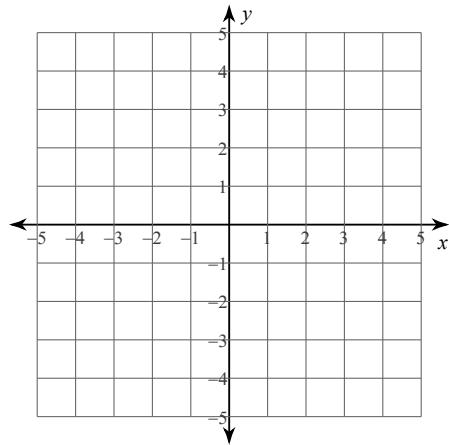
$$5) \quad y \leq -\frac{5}{2}x - 2$$

$$y < -\frac{1}{2}x + 2$$

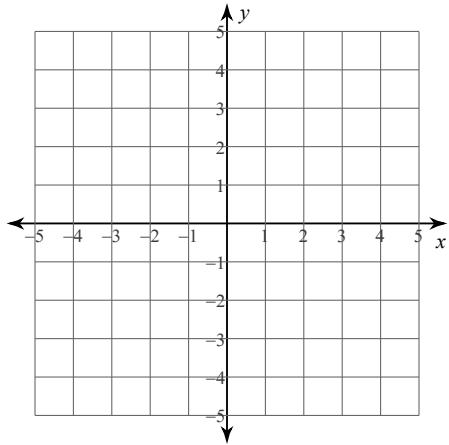


$$6) \quad y \geq \frac{2}{3}x + 3$$

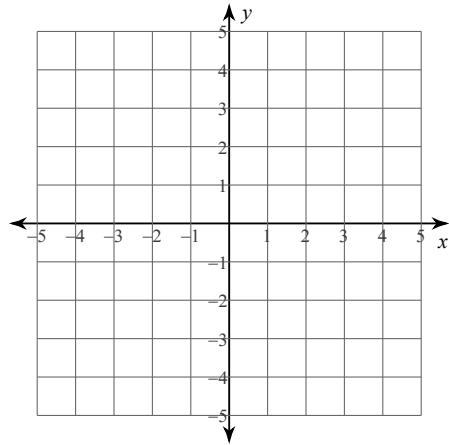
$$y > -\frac{4}{3}x - 3$$



$$7) \quad 4x + y < 2$$
$$y > -2$$



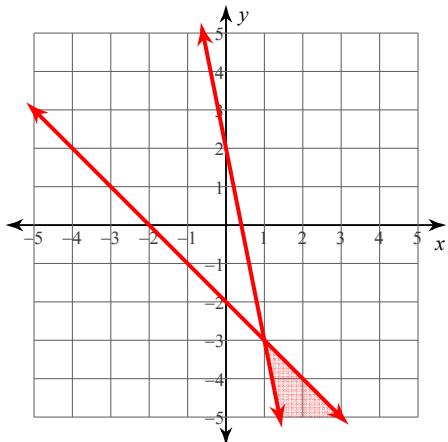
$$8) \quad 3x + 2y \geq -2$$
$$x + 2y \leq 2$$



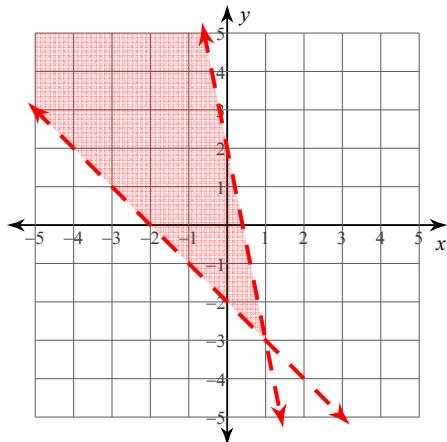
## Solving Systems of Inequalities

**Sketch the solution to each system of inequalities.**

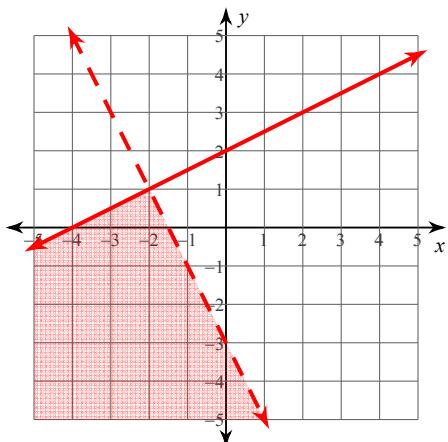
1)  $y \leq -x - 2$   
 $y \geq -5x + 2$



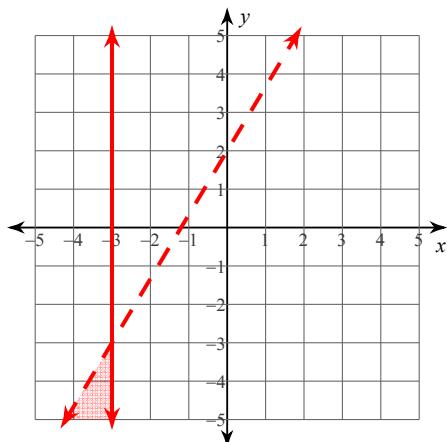
2)  $y > -x - 2$   
 $y < -5x + 2$



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

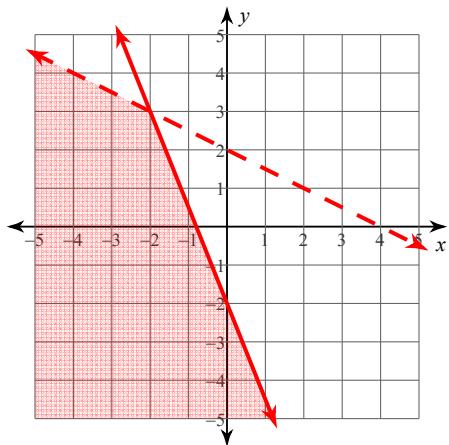


4)  $x \leq -3$   
 $y < \frac{5}{3}x + 2$



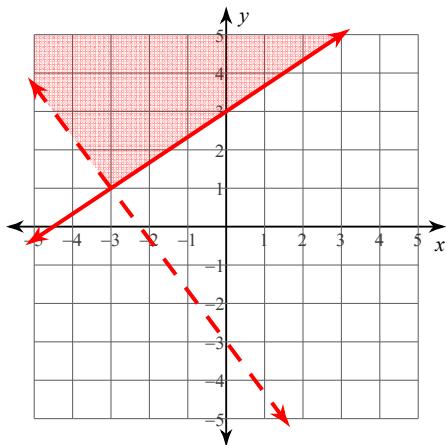
5)  $y \leq -\frac{5}{2}x - 2$

$$y < -\frac{1}{2}x + 2$$



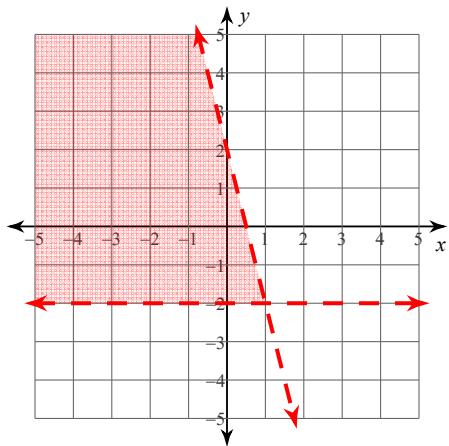
6)  $y \geq \frac{2}{3}x + 3$

$$y > -\frac{4}{3}x - 3$$



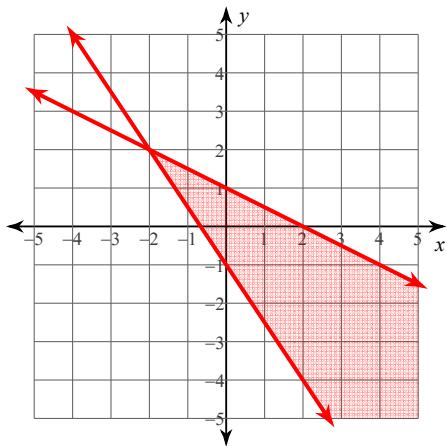
7)  $4x + y < 2$

$$y > -2$$



8)  $3x + 2y \geq -2$

$$x + 2y \leq 2$$



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