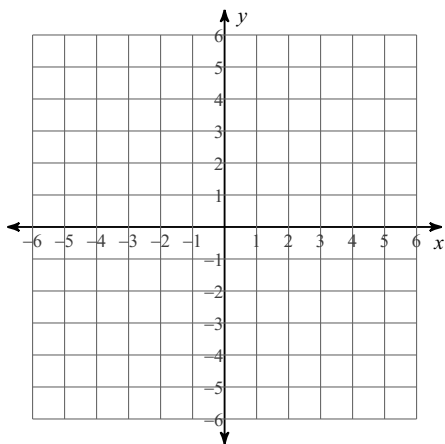


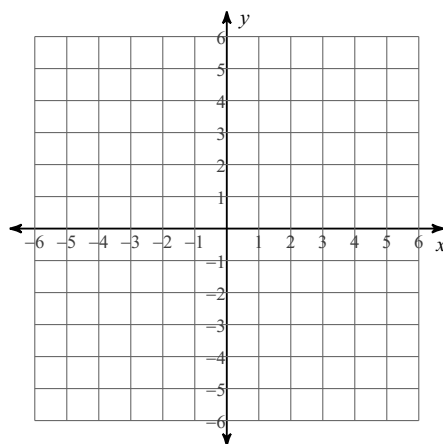
Graphing Linear Inequalities & Systems of Inequalities

CLASS EXAMPLES: Sketch the graph of each linear inequality.

1) $y \leq x - 1$

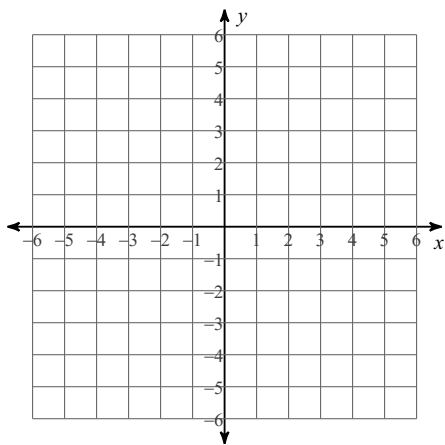


2) $y > -\frac{1}{3}x + 1$

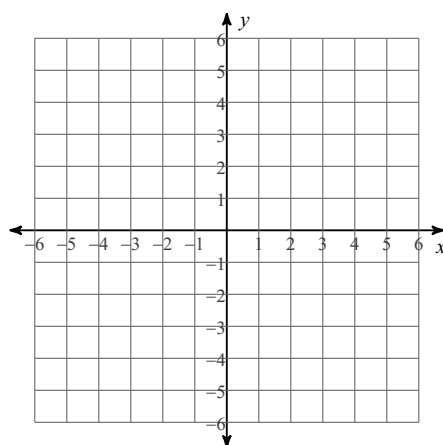


Sketch the graph of each linear inequality.

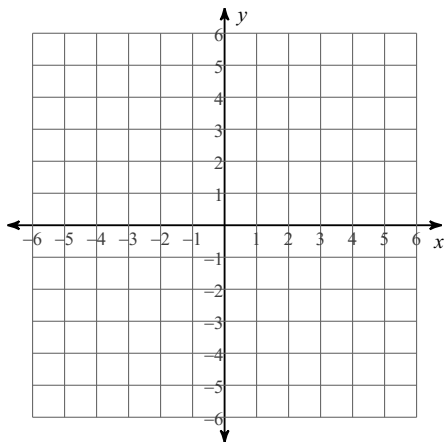
3) $y \geq -x - 5$



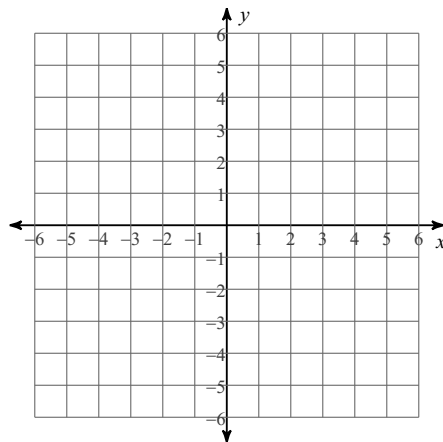
4) $y \leq \frac{9}{2}x + 4$



5) $y > -9x - 5$

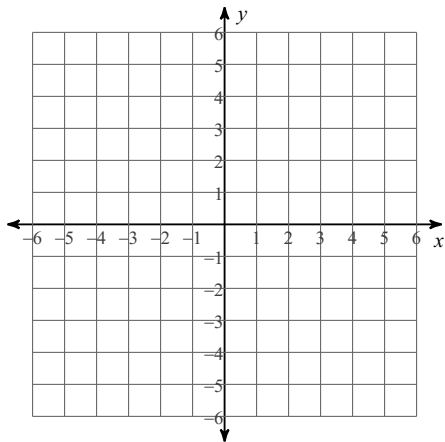


6) $y > 5x$

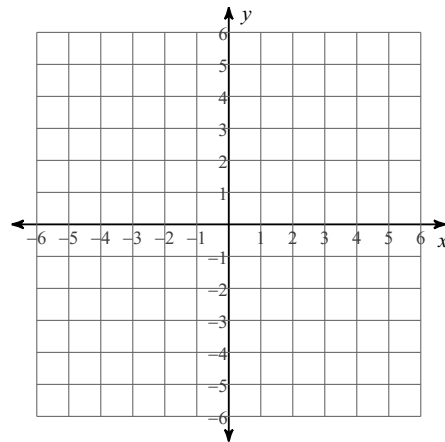


CLASS EXAMPLES: Sketch the graph of each linear inequality.

7) $x + 5y \geq -20$

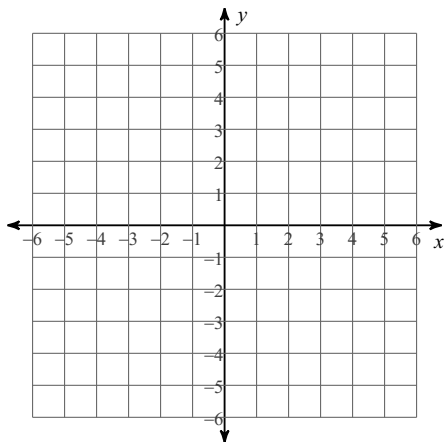


8) $2x - y > 4$

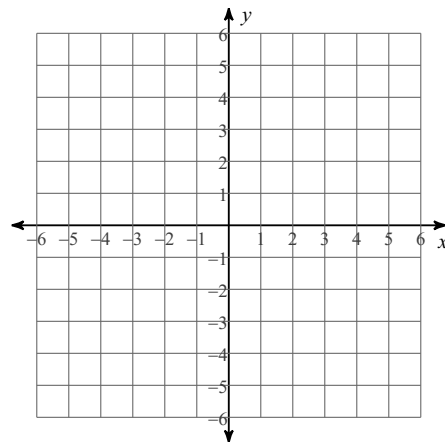


Sketch the graph of each linear inequality.

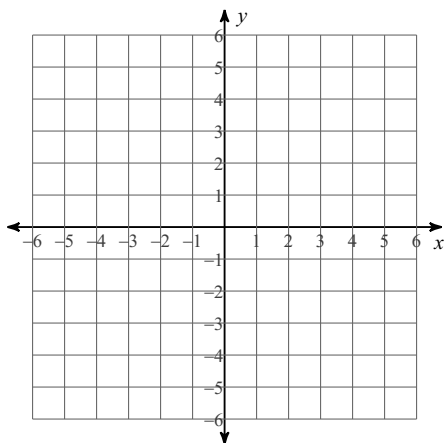
9) $3x + 4y \leq -12$



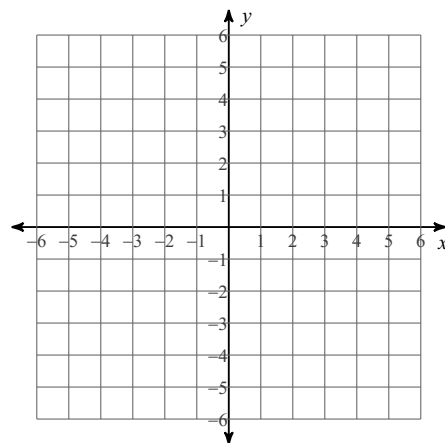
10) $3x - 4y \leq -4$



11) $x - 2y \geq 0$



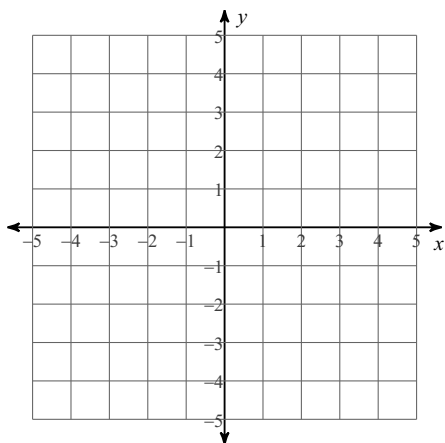
12) $x + y < 0$



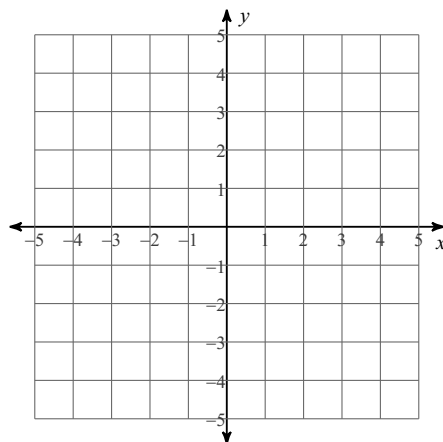
CLASS EXAMPLES: Sketch the solution to each system of inequalities.

13) $y \geq -\frac{1}{2}x - 1$

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



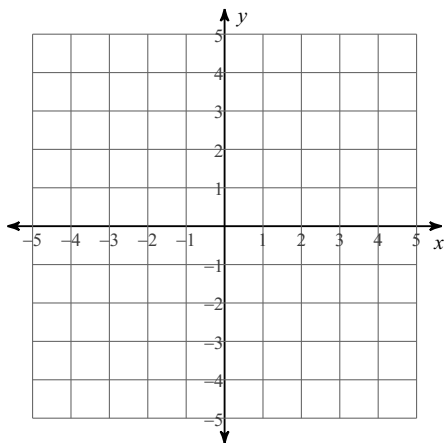
14) $x + y > -3$
 $2x - y > -3$



Sketch the solution to each system of inequalities.

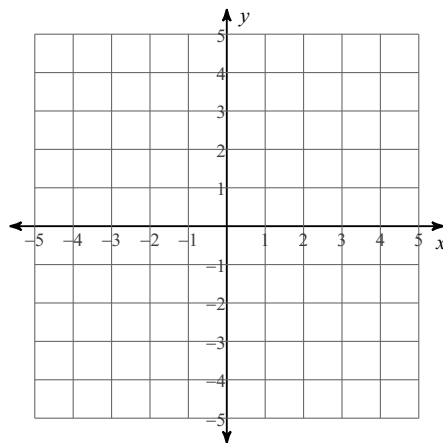
15) $y > -\frac{4}{3}x - 3$

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

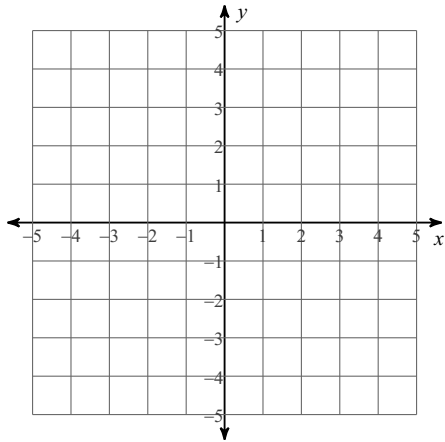


16) $y \geq \frac{5}{2}x - 3$

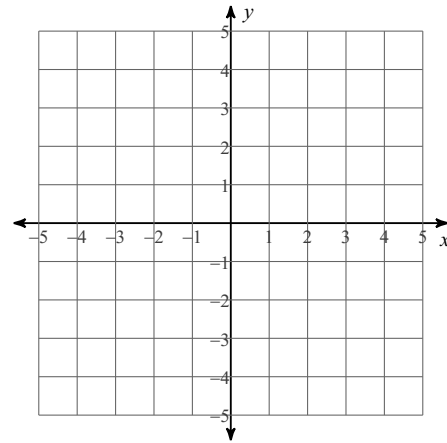
$y \geq -\frac{1}{2}x + 3$



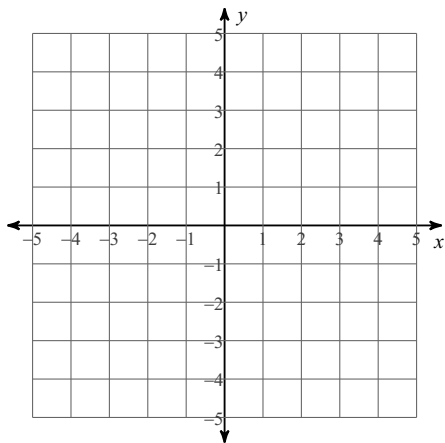
$$17) \begin{cases} 4x + 3y \geq -6 \\ x + 3y < 3 \end{cases}$$



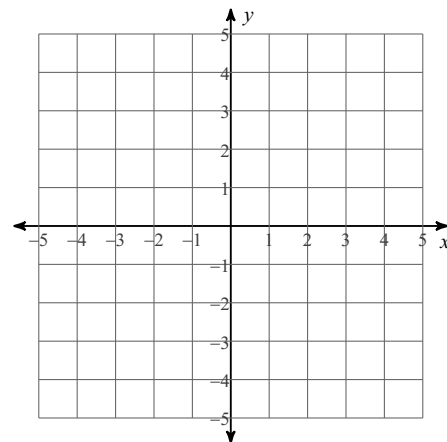
$$18) \begin{cases} y \leq -\frac{3}{2}x - 1 \\ y < \frac{1}{2}x + 3 \end{cases}$$



$$19) \begin{cases} x - 3y \leq 9 \\ 4x + 3y \geq 6 \end{cases}$$

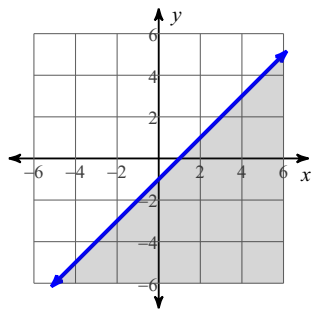


$$20) \begin{cases} y > -\frac{1}{3}x - 1 \\ y \geq \frac{1}{3}x - 3 \end{cases}$$

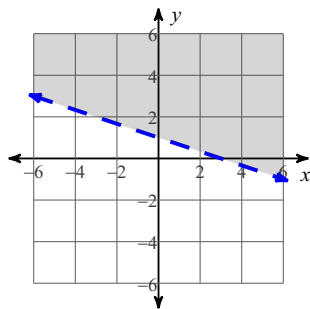


Answers to Graphing Linear Inequalities & Systems of Inequalities

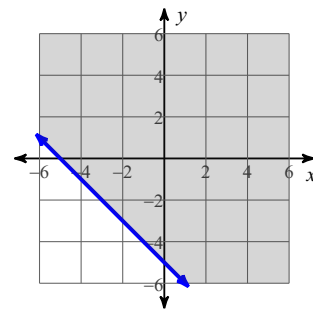
1)



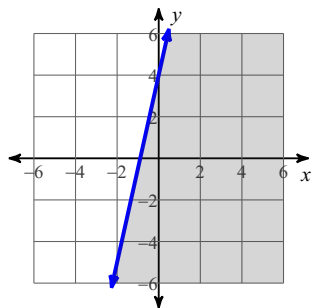
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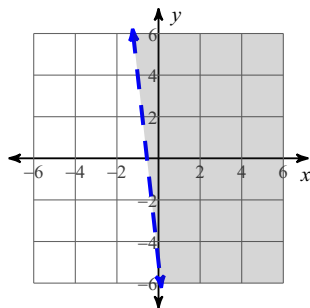
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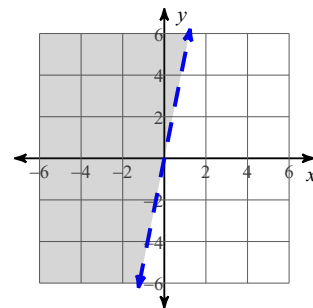
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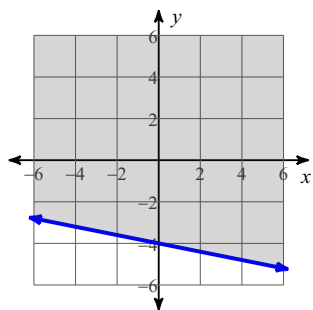
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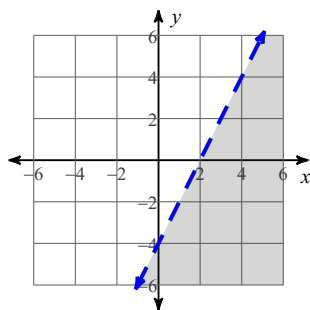
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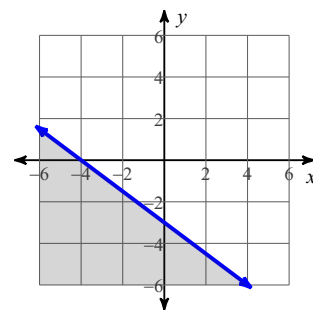
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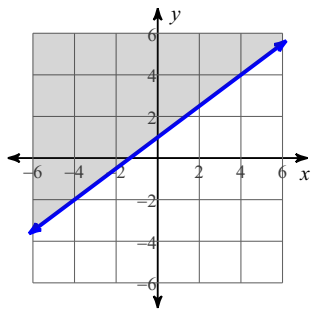
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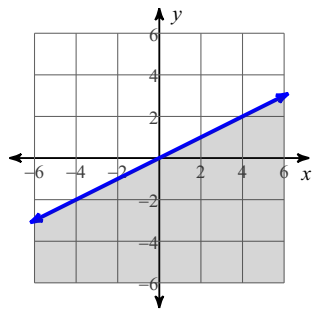
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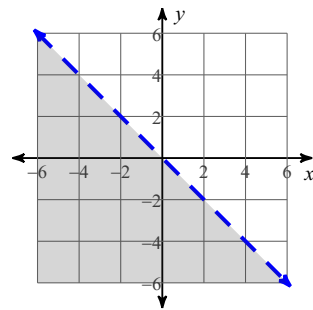
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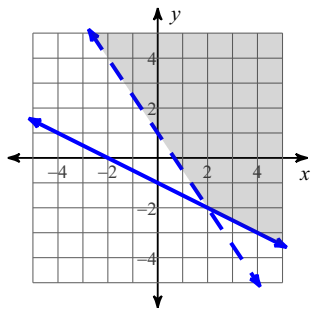
11)



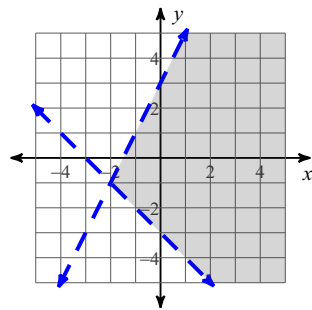
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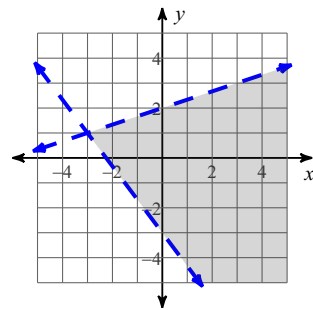
13)



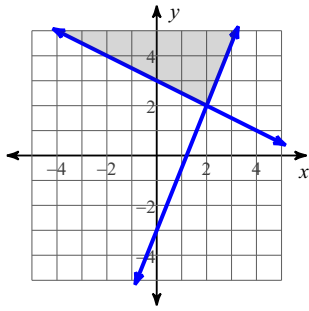
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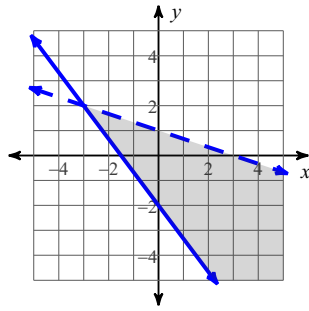
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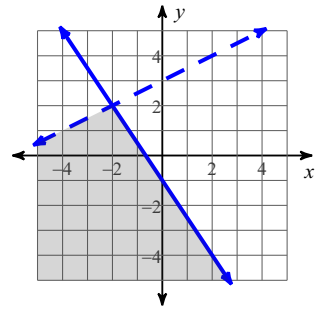
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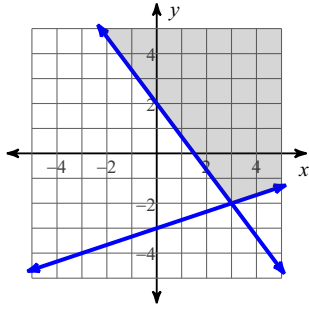
17)



18)



19)



20)

