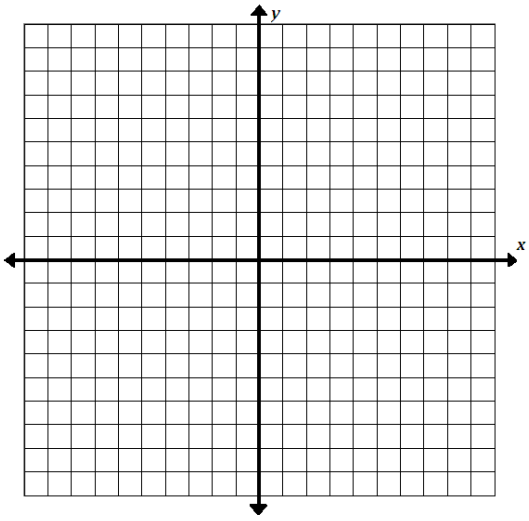
Name _____

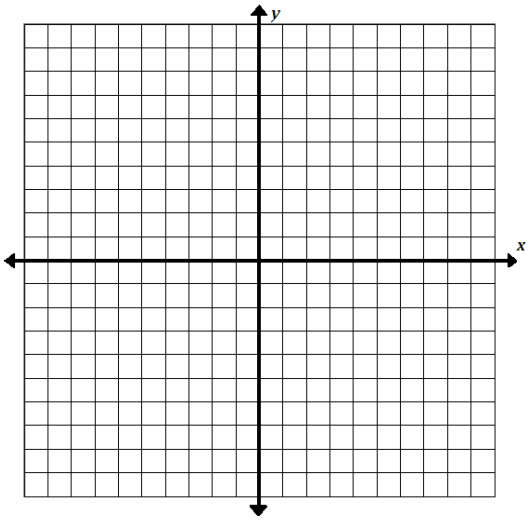
Systems of Linear Inequalities

Graph each linear inequality or system of linear inequalities.

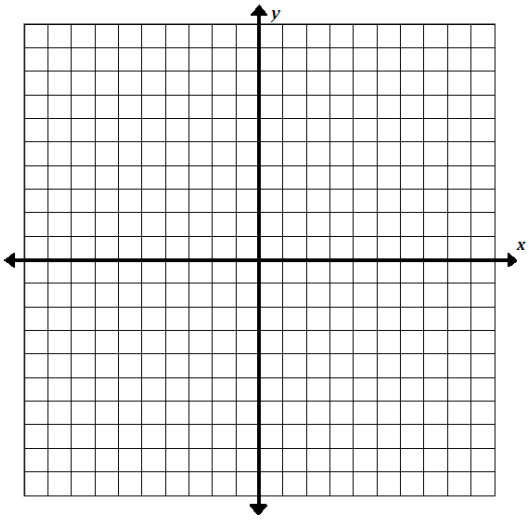
1. $y \leq \frac{2}{5}x + 2$



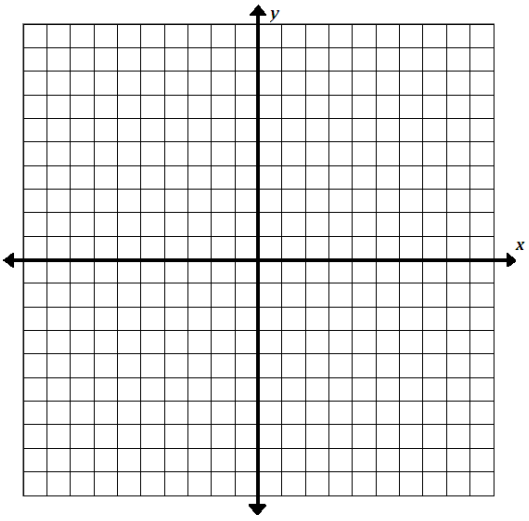
2. $4x - 4y < 8$



3. $y > 2x - 5$
   $3x + 4y < 12$

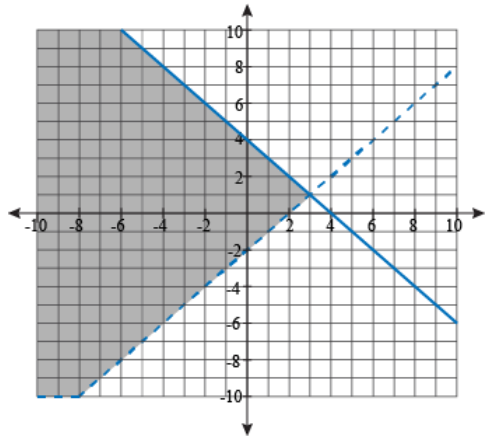


4. $y < -x + 3$
   $-2x + 4y \geq 0$



Write a system of inequalities for each graph.

5.



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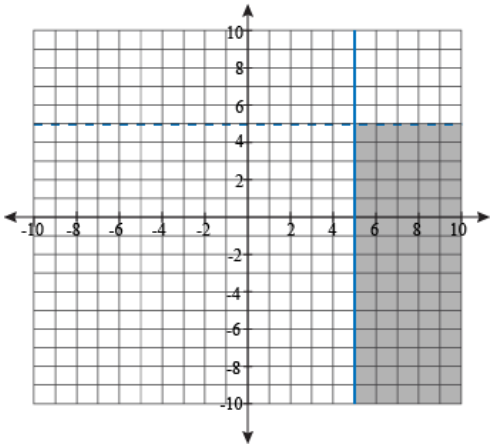
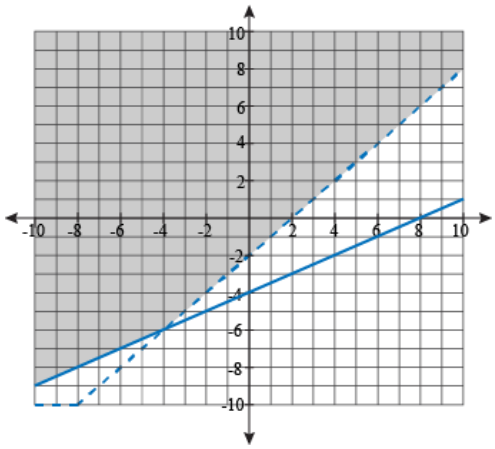


7.



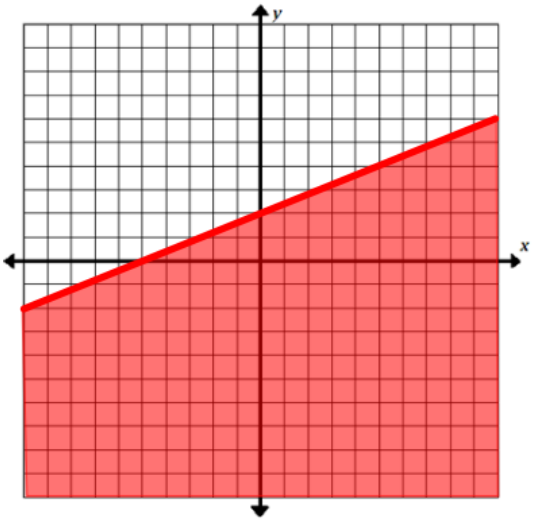
8. Using the graphs in #5 – 7, determine if (0, 3) is a solution. Circle yes or no for each.

Graph in #5: Yes / No Graph in #6: Yes / No Graph in #7: Yes / No

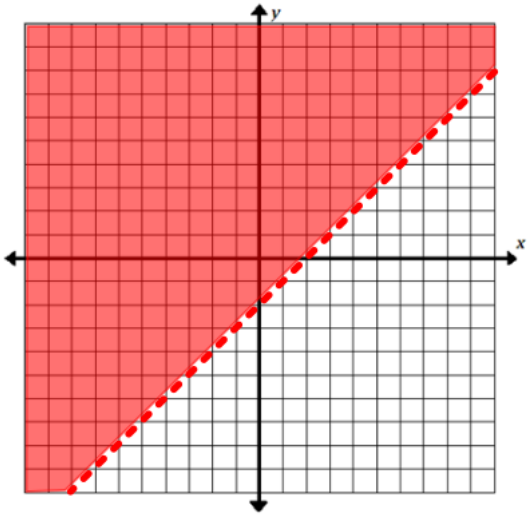
Systems of Linear Inequalities Answers

Graph each linear inequality or system of linear inequalities.

1. $y \leq \frac{2}{5}x + 2$

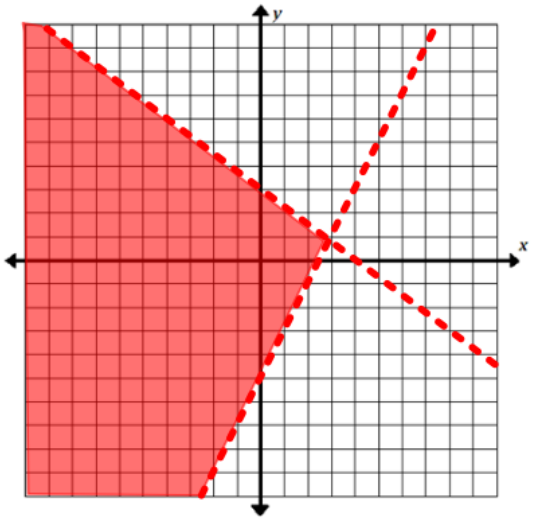


2. $4x - 4y < 8$



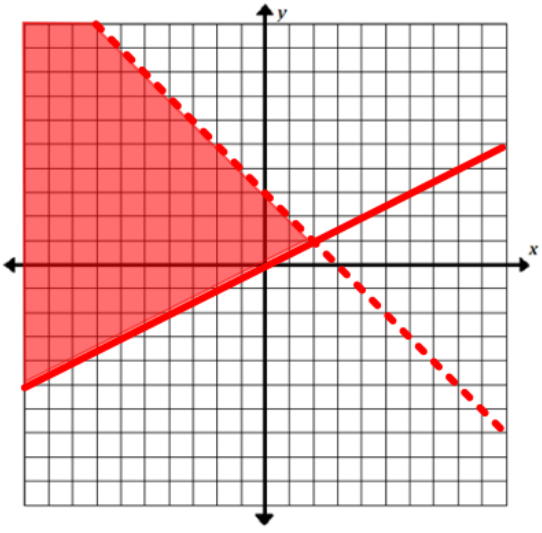
3. $y > 2x - 5$

   $3x + 4y < 12$

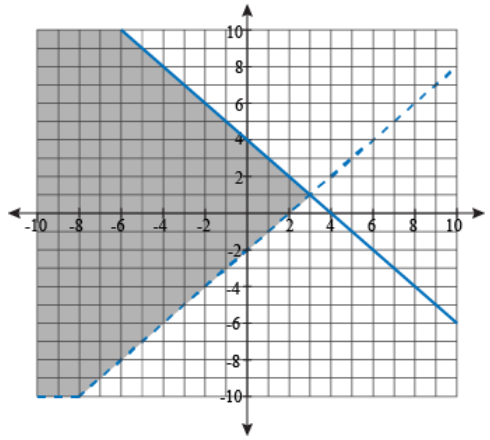


4. $y < -x + 3$

   $-2x + 4y \geq 0$

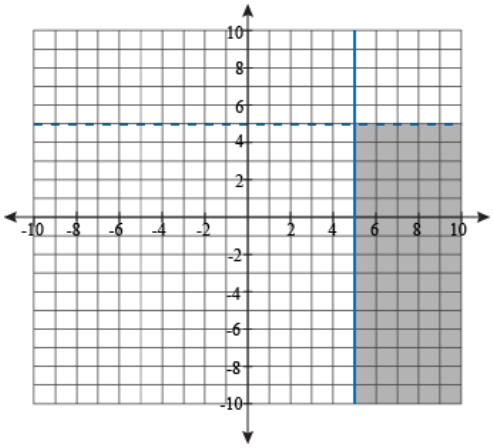


Write a system of inequalities for each graph.

5. 

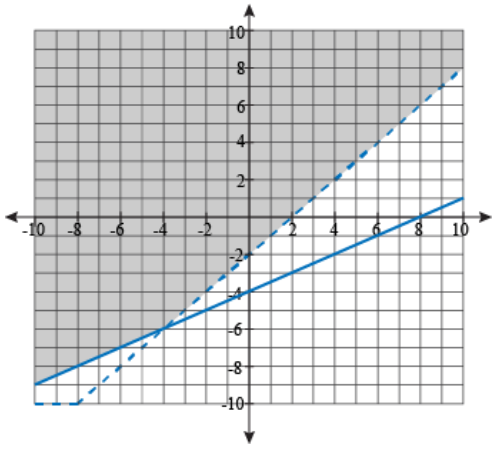
$y \leq -x + 4$

$y > x - 2$

6. 

$x \geq 5$

$y < 5$

7. 

$y > x - 2$

$y \geq \frac{1}{2}x - 4$

8. Using the graphs in #5 – 7, determine if $(0, 3)$ is a solution. Circle yes or no for each.

Graph in #5: (Yes) / No Graph in #6: Yes / (No) Graph in #7: (Yes) / No