

Student: \_\_\_\_\_  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Instructor: courtney trabue  
Course: GMC LSS Mathematics  
Book: Martin-Gay: Developmental  
Mathematics

Assignment: MAT 097 Graphing Linear  
Equations (2-var) (10.7)

1. Determine whether the ordered pairs given are solutions of the linear inequality in two variables.

$$y - x < -2; (0,2), (1, - 1)$$

Is the ordered pair (0,2) a solution to the inequality?

- Yes  
 No

Is the ordered pair (1, - 1) a solution to the inequality?

- Yes  
 No

2. Determine if the ordered pairs (2, - 2) and (- 5, - 2) are solutions of the following linear inequality in two variables.

$$-2x + 3y \leq 3$$

Is the ordered pair (2, - 2) a solution of the linear inequality?

- Yes  
 No

Is the ordered pair (- 5, - 2) a solution of the linear inequality?

- Yes  
 No

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3. Determine if the ordered pairs  $(-3, -5)$  and  $(-1, 5)$  are solutions of the following linear inequality in two variables.

$$x < y$$

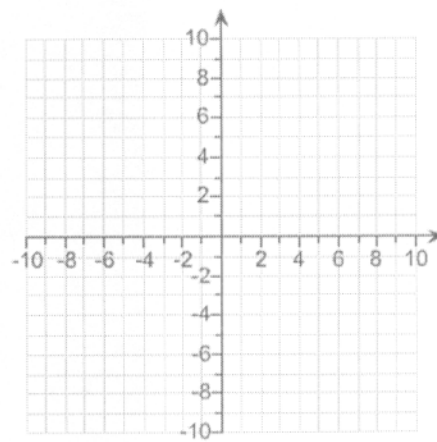
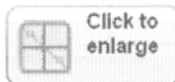
Is the ordered pair  $(-3, -5)$  a solution of the linear inequality?

- Yes  
 No

Is the ordered pair  $(-1, 5)$  a solution of the linear inequality?

- No  
 Yes

4. Graph the inequality  $x + y \geq 3$ .  
Use the graphing tool to graph the inequality.



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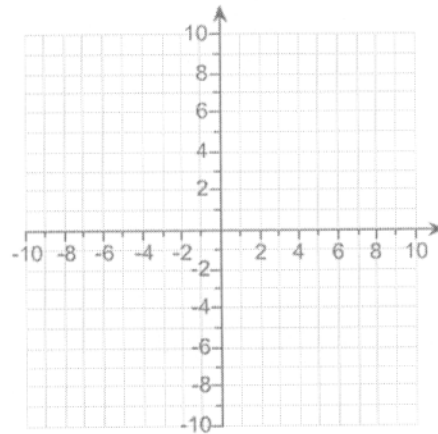
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5. Graph the following inequality.

$$-3x - 3y > 3$$

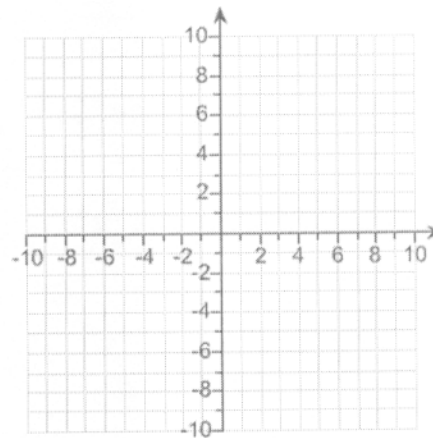
Use the graphing tool to graph the inequality.



6. Graph the following inequality.

$$x - 4y < 4$$

Use the graphing tool to graph the inequality.



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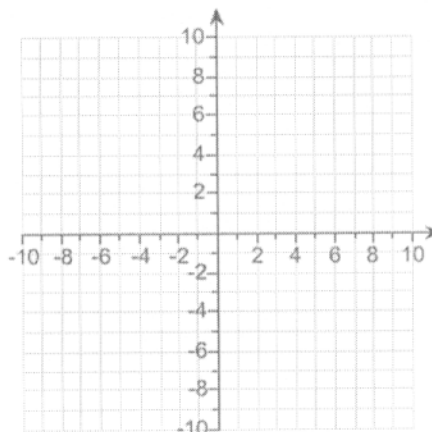
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7. Graph the following inequality.

$$y < 6x$$

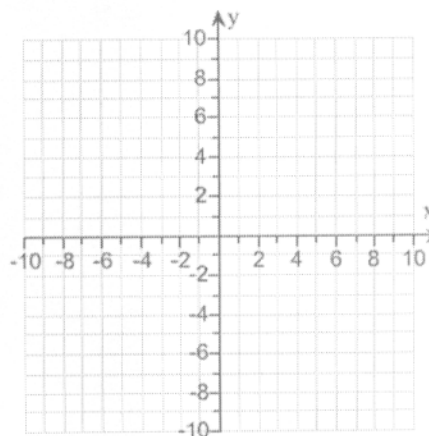
Use the graphing tool to graph the inequality.



8. Graph the following inequality.

$$y > -1$$

Use the graphing tool to graph the inequality.



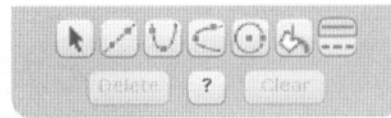
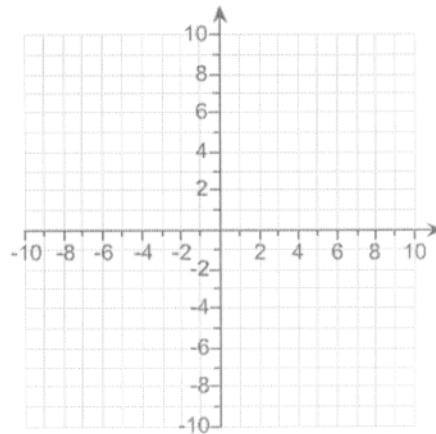
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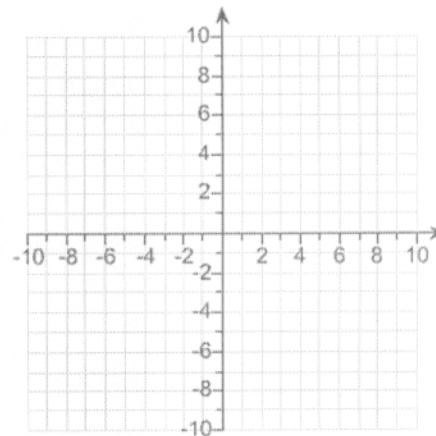
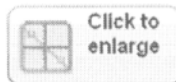
9. Graph the linear inequality  $2x - y \leq 4$ .

Use the graphing tool to graph the inequality.



10. Graph the inequality  $-4x - y \geq -4$ .

Use the graphing tool to graph the inequality.



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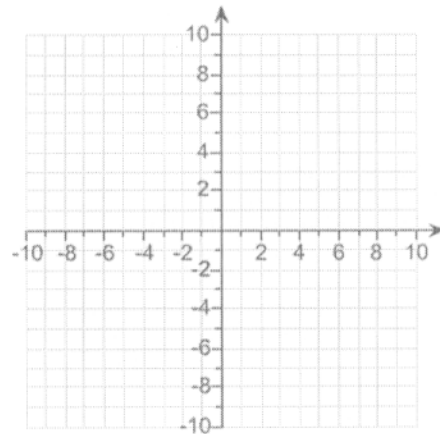
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11. Graph the following inequality.

$$x > 4y$$

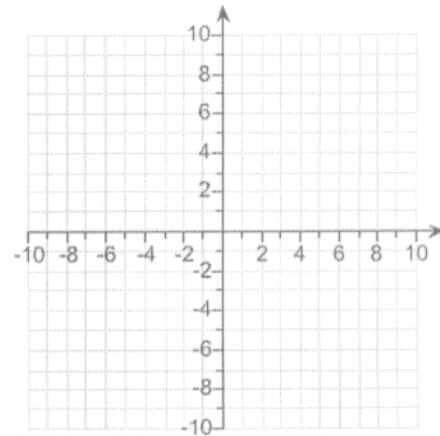
Use the graphing tool to graph the inequality.



12. Graph the following inequality.

$$x \leq -5$$

Use the graphing tool to graph the inequality.



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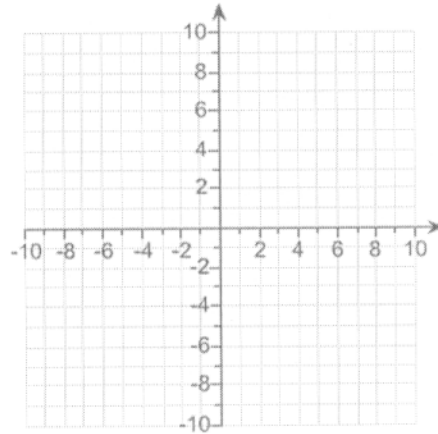
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13. Graph the following inequality.

$$y \leq -1$$

Use the graphing tool to graph the inequality.



14. Graph the inequality  $3x + 2y > -6$ .

Use the graphing tool to graph the inequality.

