

Name \_\_\_\_\_

Date \_\_\_\_\_ Pd. \_\_\_\_\_

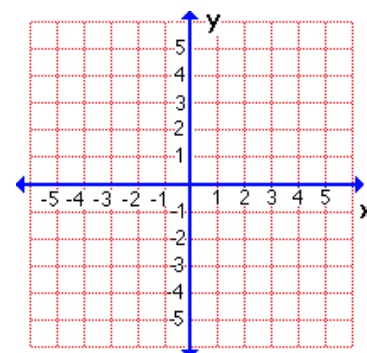
**Notes: Graphing Systems of Linear Inequalities Day 2****Example 1**

Solve the system of inequalities

by graphing.

$$y > x + 2$$

$$y \leq -2x - 1$$

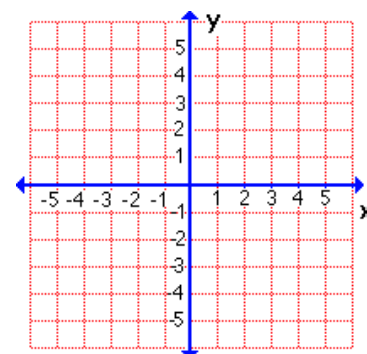
**Example 2**

Solve the system of inequalities

by graphing.

$$x + y > 4$$

$$x + y < -1$$



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**Exit Card: Graphing Systems of Linear Inequalities Day 2**

Jamal is planning a trip to two different cities. The cost per night to stay in each city is given in the table below.

City	Cost per Night
Boston	\$140
New York	\$200

Jamal can stay no more than 7 nights.

He can spend no more than \$700.

Let  $x$  represent the number of nights spent in Boston.

Let  $y$  represent the number of nights spent in New York.

Which system of inequalities represents this situation?

**F.**  $x + y \leq 7$   
 $140x + 200y \leq 700$

**G.**  $x + y \leq 7$   
 $140x + 200y \geq 700$

**H.**  $x + y \geq 7$   
 $140x + 200y \geq 700$

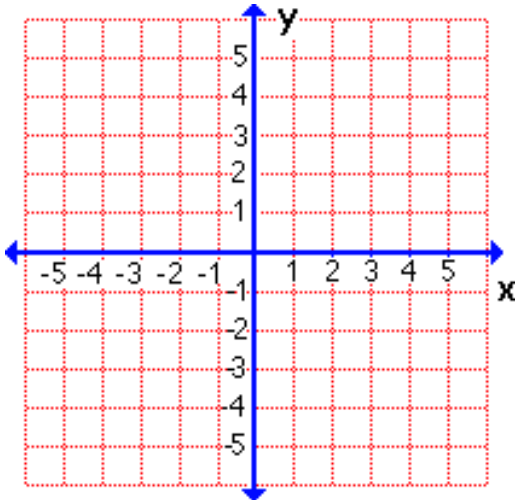
**J.**  $x + y \geq 7$   
 $140x + 200y \leq 700$

Name \_\_\_\_\_

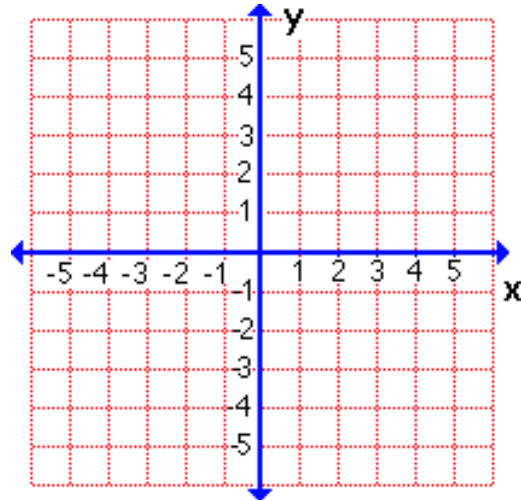
Date \_\_\_\_\_ Pd. \_\_\_\_\_

**Homework: Page 397 (18 – 21, 27, 28)**

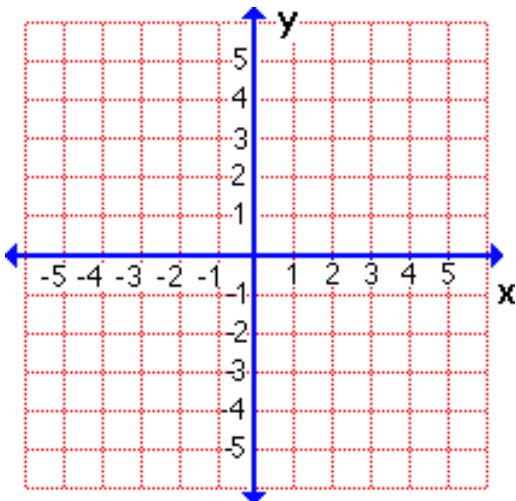
18. Graph solution of  $\begin{cases} y < 2x + 1 \\ y \geq -x + 3 \end{cases}$



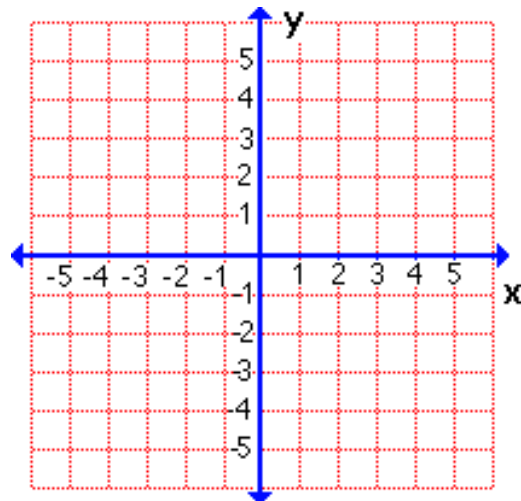
19. Graph solution of  $\begin{cases} y - x < 1 \\ y - x > 3 \end{cases}$



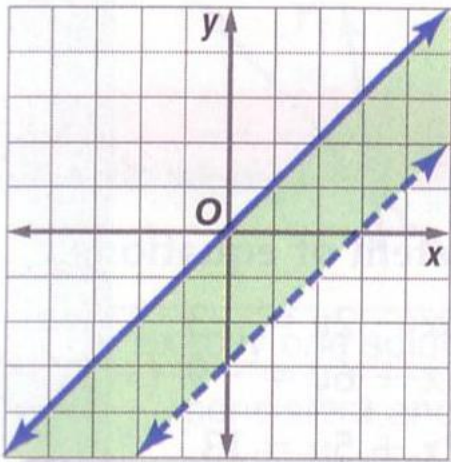
20. Graph solution of  $\begin{cases} y - x < 3 \\ y - x \geq 2 \end{cases}$



21. Graph solution of  $\begin{cases} 2x + y \leq 4 \\ 3x - y \geq 6 \end{cases}$

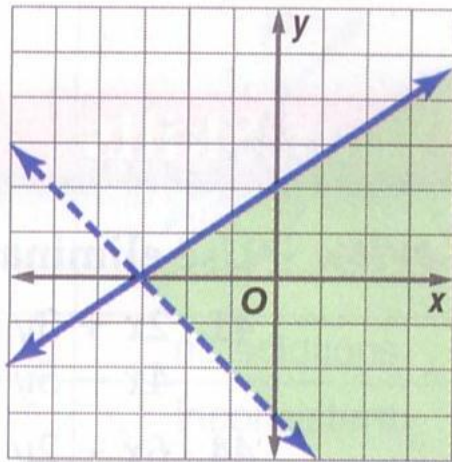


27. Write the system of inequalities for the graph.



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28. Write the system of inequalities for the graph.



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