

NAME: _____

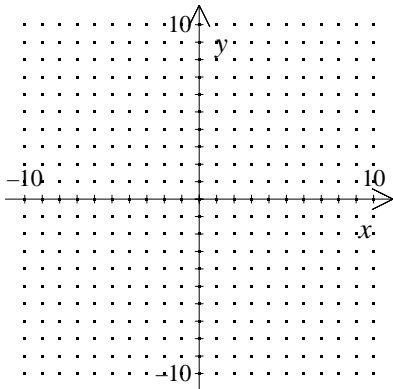
P.I. A.A.40: Determine whether a given point is in the solution set of a system of linear inequalities

P.I. A.G.7: Graph and solve systems of linear inequalities with rational coefficients in two variables

- Which point is in the solution set of
 $y < 2x + 1$?
 $y \leq -3x + 4$
 [A] (1, 1) [B] (1, 2)
 [C] (1, 3) [D] none of these

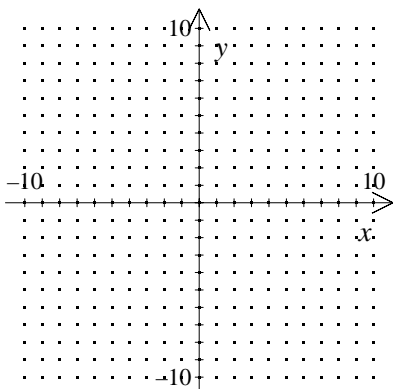
[1] _____

- Solve the system graphically:
 $y \leq -x + 2$
 $y < -1$



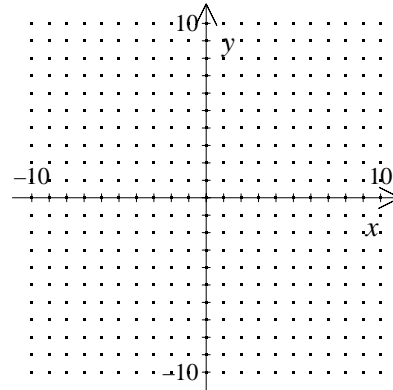
[2] _____

- Solve the system graphically:
 $y \leq 2x + 1$
 $y > -2$



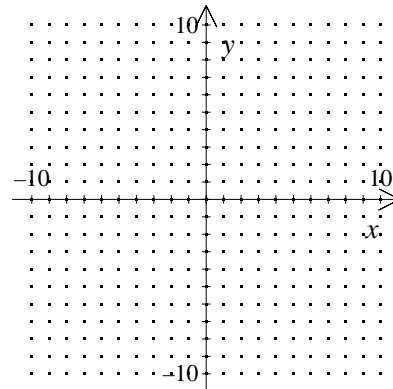
[3] _____

- Solve the system graphically:
 $y \geq x + 1$
 $y > -1$



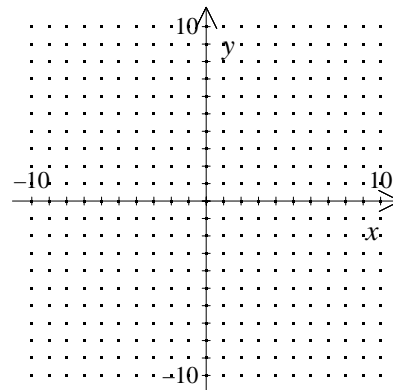
[4] _____

- Solve the system graphically:
 $y \geq 2x - 2$
 $y \leq -x - 3$



[5] _____

- Solve the system graphically:
 $y \geq 2x - 5$
 $y \leq -x - 8$



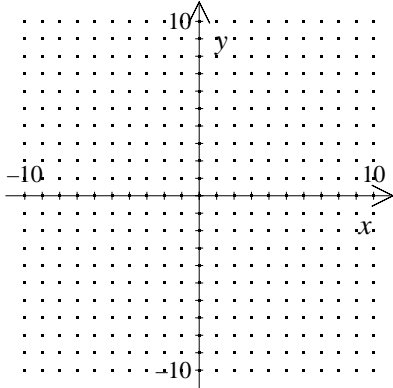
[6] _____

NAME: _____

7. Solve the system graphically:

$$y \geq 2x + 1$$

$$y \leq -x + 4$$

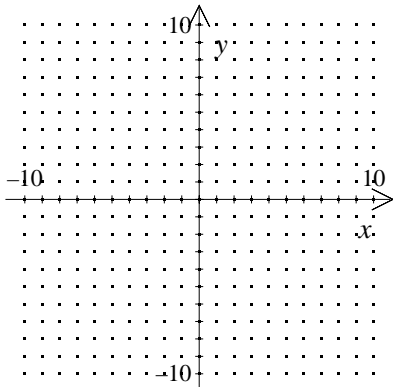


[7] _____

8. Solve the system graphically:

$$y \geq x - 3$$

$$y \leq -2x - 4$$

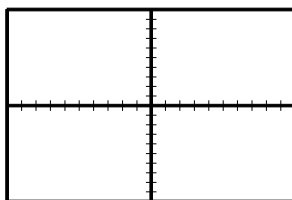


[8] _____

9. Use the Shade feature of a graphing calculator to graph the system of linear inequalities below. Sketch the graph on your paper.

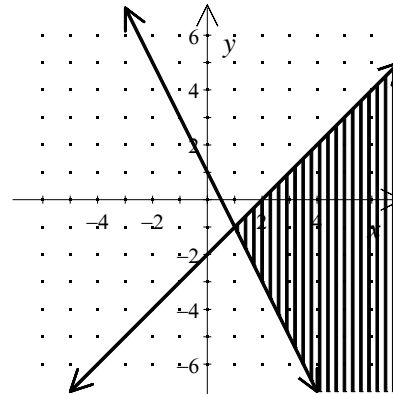
$$y \geq x + 2$$

$$y \leq -x - 2$$



[9] _____

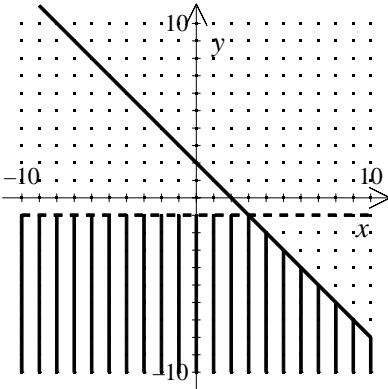
10. Which system of inequalities describes the graph?



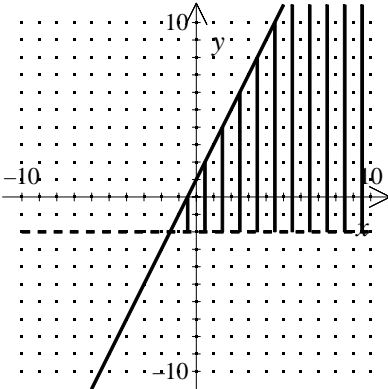
- | | |
|----------------------|----------------------|
| [A] $y \geq -2x + 1$ | [B] $y \leq -2x + 1$ |
| $y \leq x - 2$ | $y > x - 2$ |
| [C] $y \leq -2x + 1$ | [D] $y < -2x + 1$ |
| $y \geq x - 2$ | $y \geq x - 2$ |
| [E] $y > -2x + 1$ | |
| $y \leq x - 2$ | |

[10] _____

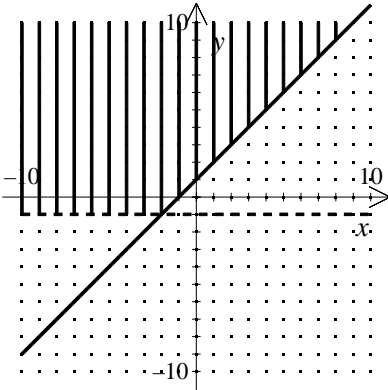
[1] A _____



[2] _____

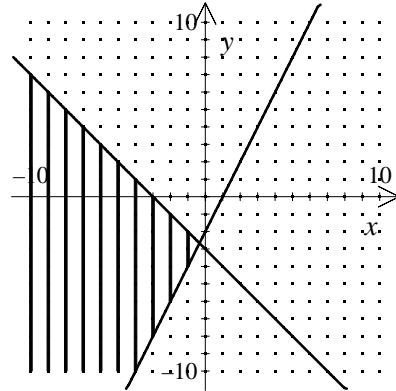


[3] _____

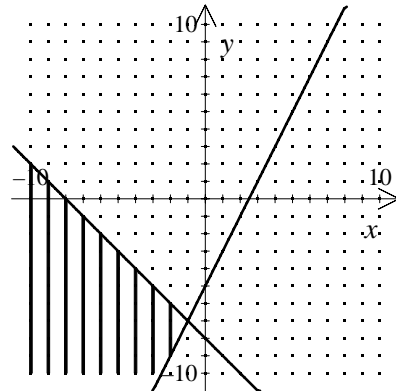


[4] _____

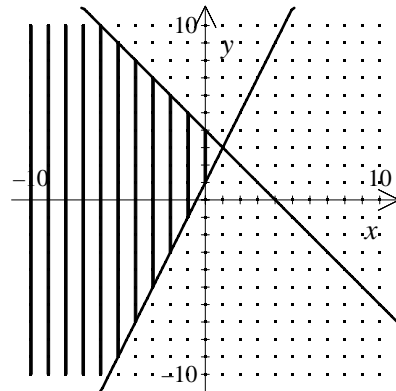
[5] _____



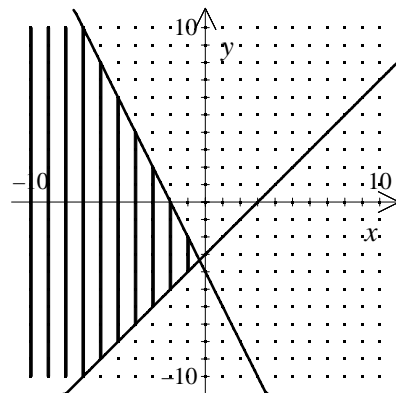
[6] _____

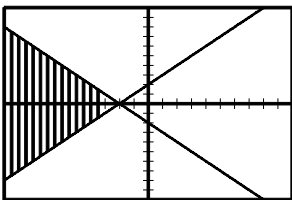


[7] _____



[8] _____





[9] _____

[10] A _____