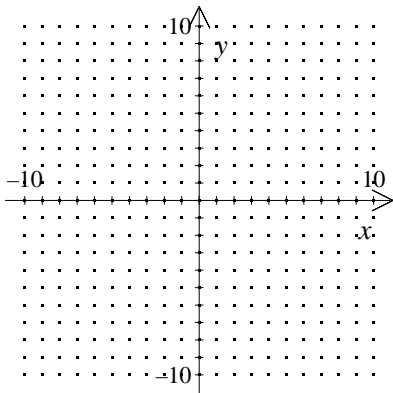


*P.I. A.G.7: Graph and solve systems of linear equations and inequalities with rational coefficients in two variables*

1. Solve the system graphically:

$$y \leq -x + 2$$

$$y < -1$$

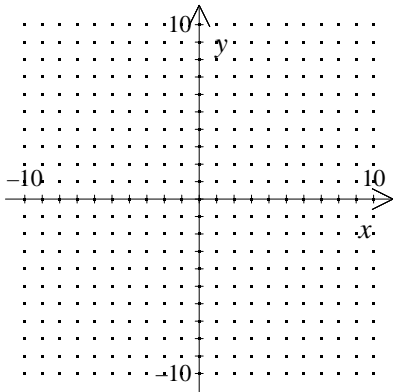


[1] \_\_\_\_\_

2. Solve the system graphically:

$$y \leq 2x + 1$$

$$y > -2$$

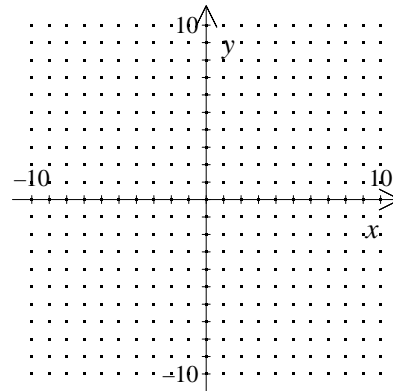


[2] \_\_\_\_\_

3. Solve the system graphically:

$$y \geq x + 1$$

$$y > -1$$

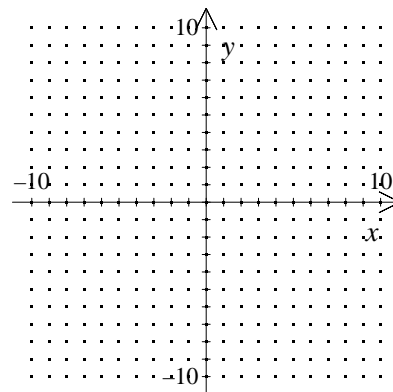


[3] \_\_\_\_\_

4. Solve the system graphically:

$$y \geq 2x - 2$$

$$y \leq -x - 3$$

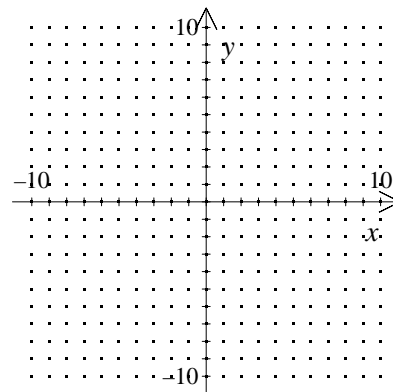


[4] \_\_\_\_\_

5. Solve the system graphically:

$$y \geq 2x - 5$$

$$y \leq -x - 8$$

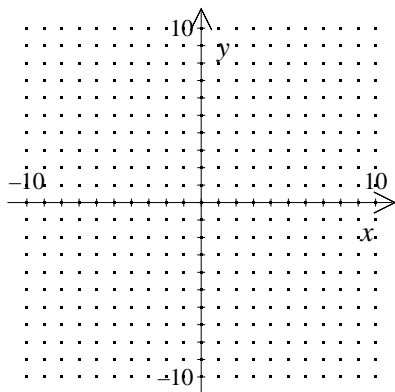


[5] \_\_\_\_\_

6. Solve the system graphically:

$y \geq 2x + 1$

$y \leq -x + 4$

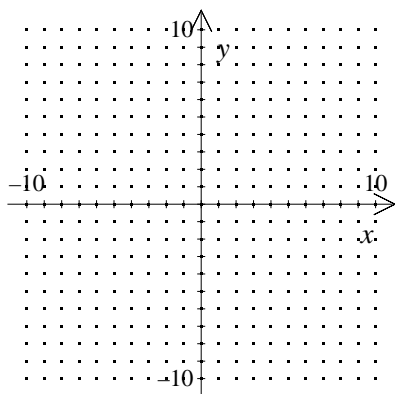


[6] \_\_\_\_\_

7. Solve the system graphically:

$y \geq x - 3$

$y \leq -2x - 4$

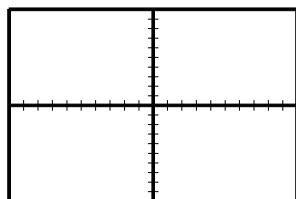


[7] \_\_\_\_\_

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

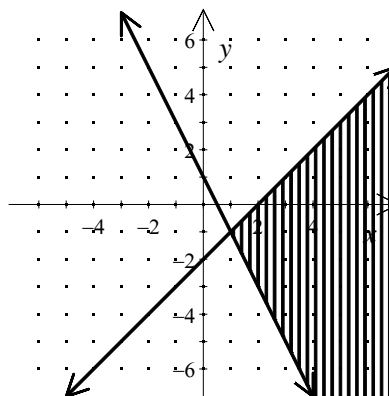
$y \geq x + 2$

$y \leq -x - 2$



[8] \_\_\_\_\_

9. 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]  $y > -2x + 1$

$y \leq x - 2$

[9] \_\_\_\_\_

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

10. Which point is in the solution set of

$y < 2x + 1$  ?

$y \leq -3x + 4$

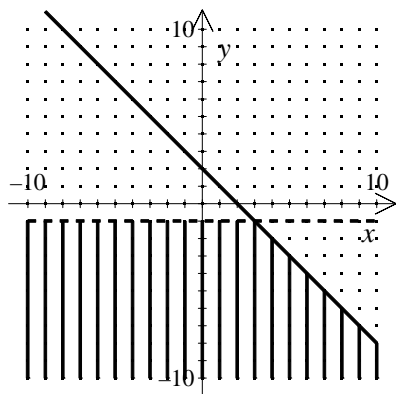
[A] (1, 1)

[B] (1, 2)

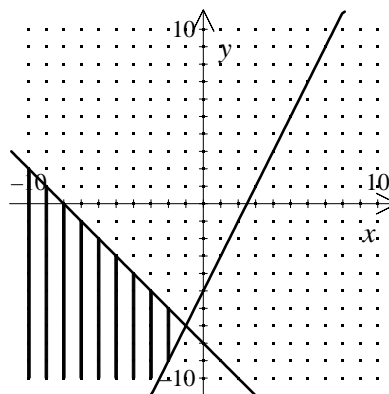
[C] (1, 3)

[D] none of these

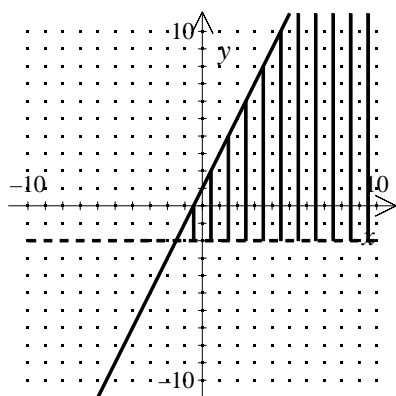
[10] \_\_\_\_\_



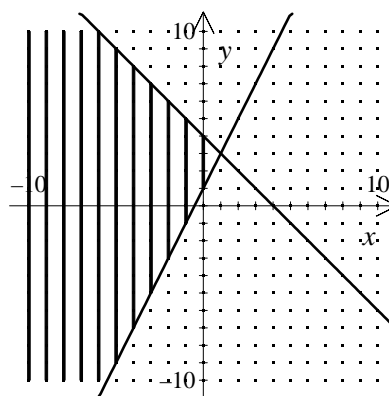
[1]



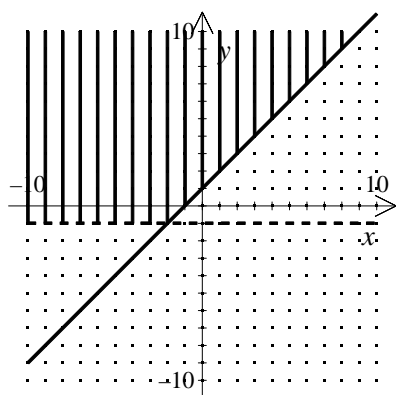
[5]



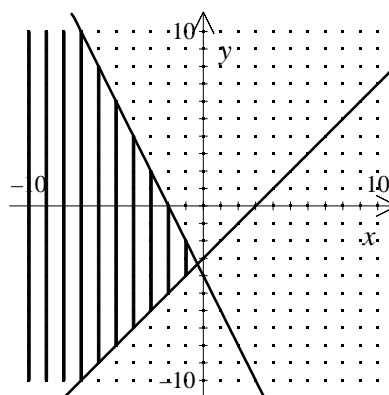
[2]



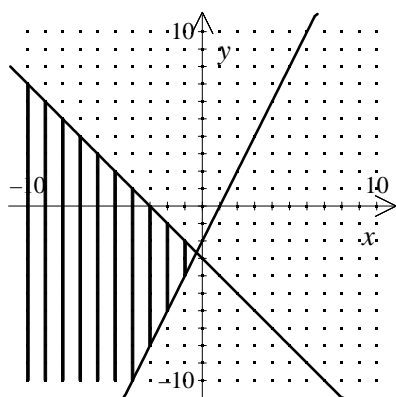
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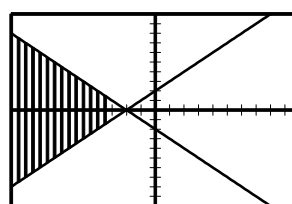
[3]



[7]



[4]



[8]

[9] A \_\_\_\_\_

[10] A \_\_\_\_\_