

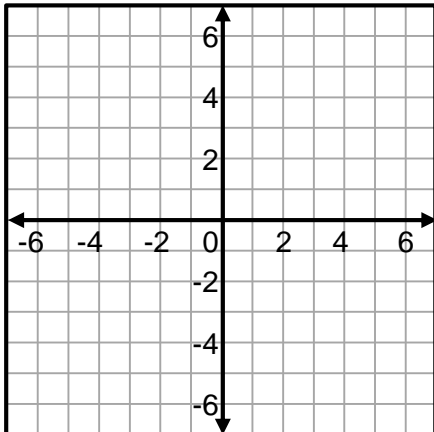
⚡ YOU MUST SHOW WORK ON ALL QUESTIONS TO RECEIVE CREDIT ⚡



I am the one whom watches. - Abe

1. Graph the inequality.

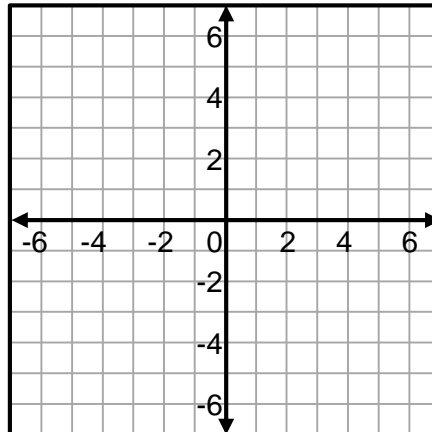
$$y \leq \frac{1}{4}x + 1$$



2. Graph the system of equations.
State the solution below (as a point).

$$y = -2x \text{ and } y = x + 3$$

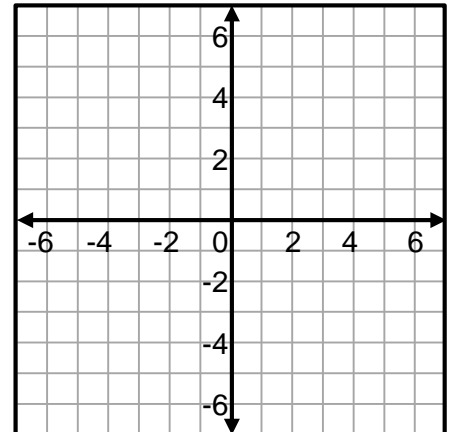
Solution (,)



3. Graph the system of inequalities.
State any one solution below (point).

$$y \leq \frac{1}{2}x + 2 \text{ and } y > 2x - 1$$

Solution (,)



4. Tell whether the system has one solution, no solution, or infinite solutions.

$$y = -3x - 1$$

$$y = -3x - 9$$

Circle One

- A) One Solution
- B) No Solutions
- C) Infinite Solutions

5. Choose the point that is a solution to the inequality below.

Hint: Plug it in!

$$2y + 2 > -10x + 2$$

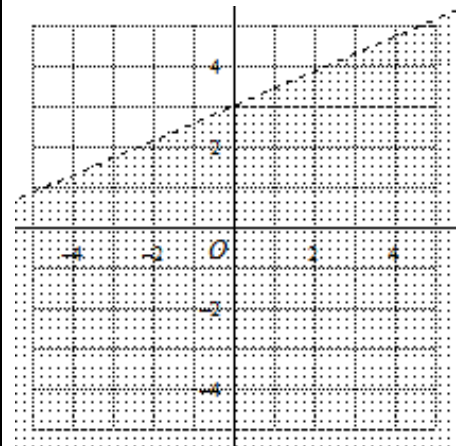
Circle One

- A) (-2, -2) C) (2, 4)
- B) (1, -10) D) (-10, -1)

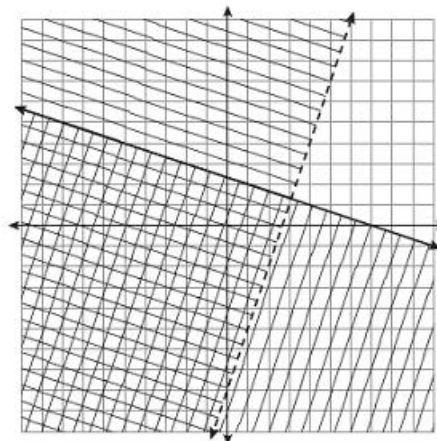
6. Choose which inequality is shown in the graph below.

Circle One

- A) $y < \frac{1}{2}x + 3$ C) $y > \frac{1}{2}x + 3$
- B) $y \geq \frac{1}{2}x + 3$ D) $y \leq \frac{1}{2}x + 3$



7. Write THREE coordinates or points that are solutions to the system of inequalities to the right.



Solution (,)

Solution (,)

Solution (,)



8. Solve the system ALGEBRAICALLY.

$$y = 4x + 10$$

$$y = 2x + 8$$

Solution (,)

9. Solve the system ALGEBRAICALLY.

$$2x + y = 1$$

$$4x - y = 17$$

Solution (,)

10. Solve the system ALGEBRAICALLY.

$$5x + 2y = 12$$

$$y = x - 1$$

Solution (,)

11. Solve the system ALGEBRAICALLY.

$$x + 3y = 9$$

$$5x + 9y = 21$$

Solution (,)