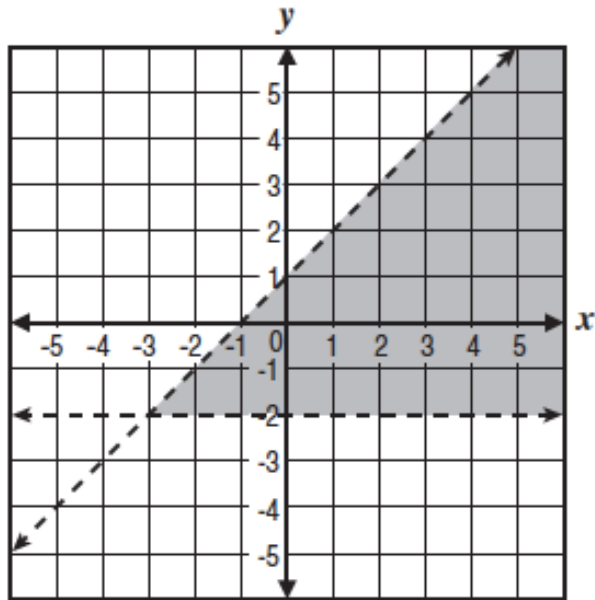


### SECTION 3-3 QUIZ A

What system of inequalities *best* represents the graph shown below?



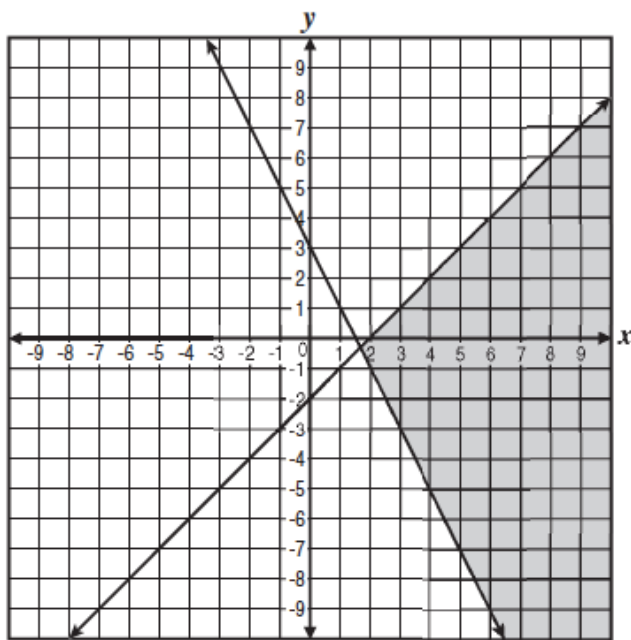
- A  $y > -2$  and  $y > x + 1$
- B  $y > -2$  and  $y < x + 1$
- C  $y < -2$  and  $y > x + 1$
- D  $y < -2$  and  $y < x + 1$

Which point lies in the solution set for the

system  $\begin{cases} 2y - x \geq -6 \\ 2y - 3x < -6 \end{cases}$  ?

- A  $(-4, -1)$
- B  $(3, 1)$
- C  $(0, -3)$
- D  $(4, 3)$

Which system of linear inequalities is represented by this graph?



A 
$$\begin{cases} y \geq \frac{1}{2}x + 3 \\ y \geq x - 2 \end{cases}$$

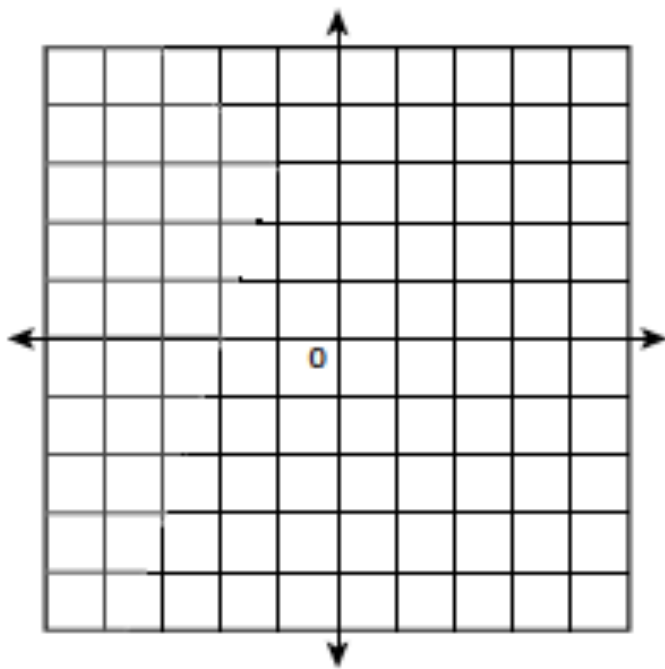
B 
$$\begin{cases} y \geq 2x + 3 \\ y \leq x - 2 \end{cases}$$

C 
$$\begin{cases} 2x - y \geq 3 \\ x + y \leq 2 \end{cases}$$

D 
$$\begin{cases} 2x + y \geq 3 \\ x - y \geq 2 \end{cases}$$

Graph the system of inequalities

$$\begin{cases} x + y < 2 \\ -3x + y \geq 6 \end{cases}$$



**\*\*\*EXTRA CREDIT\*\*\***

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Classify the figure created by the solution region of the system of

inequalities  $\begin{cases} y \geq 3 \\ y \leq 7 \\ x \geq -2 \\ x \geq 2 \\ y \leq -x + 9 \end{cases}$  .

- A** square
- B** rectangle
- C** parallelogram
- D** triangle