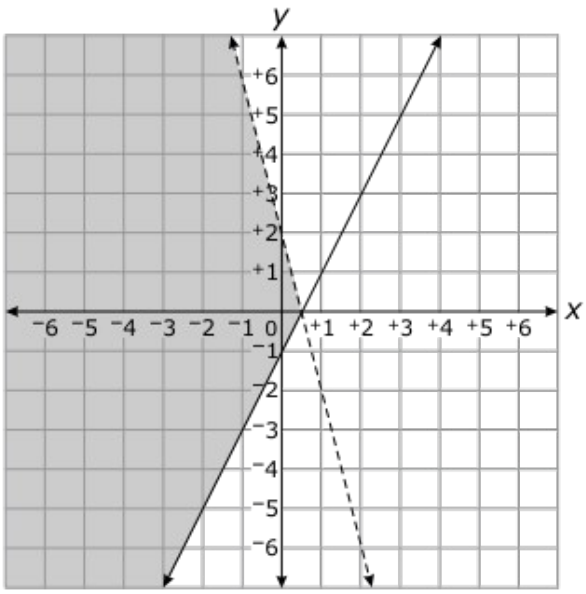
TEST NAME: **NAMSIM11314A-REI.12**
TEST ID: **136096**
GRADE: **09**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student:

Class:

Date:

1. Which system of inequalities is graphed below?



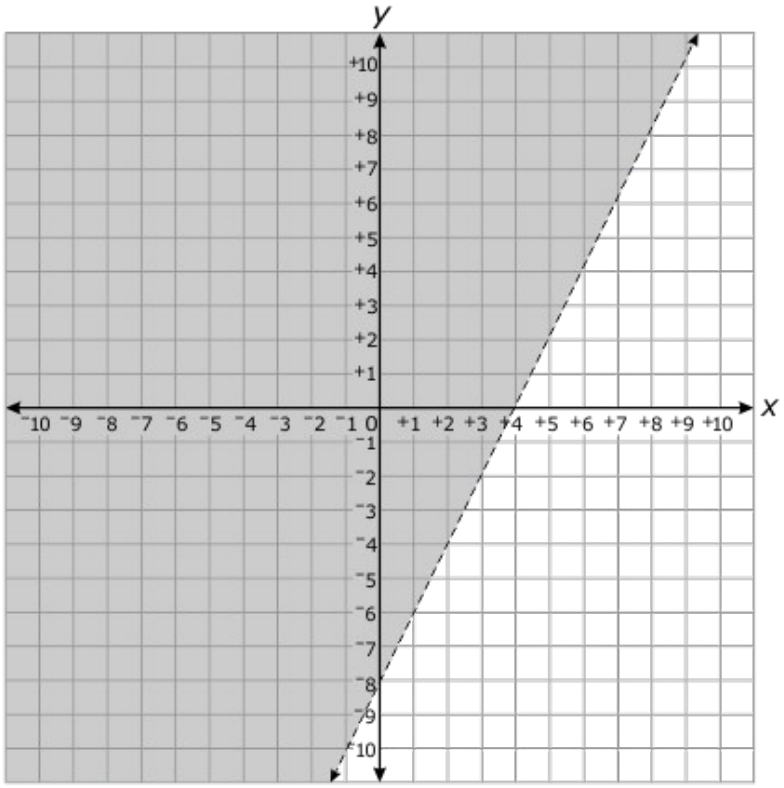
A. $4x - y < 2$
$2x + y \leq 1$

B. $4x - y < 2$
$2x + y \geq 1$

C. $4x + y < 2$
$2x - y \leq 1$

D. $4x + y < 2$
$2x - y \geq 1$

2. Which inequality is graphed below?



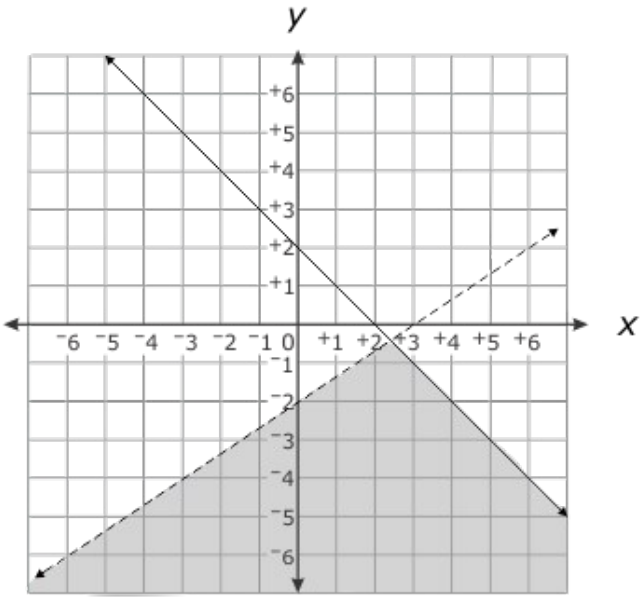
A. $2x - y > 8$

B. $2x - y < 8$

C. $2x - y \geq 8$

D. $2x - y \leq 8$

3. The solution set to which system of inequalities is shown in the graph below?



A. $5x + 5y \geq 10$
$2x - 3y < 6$

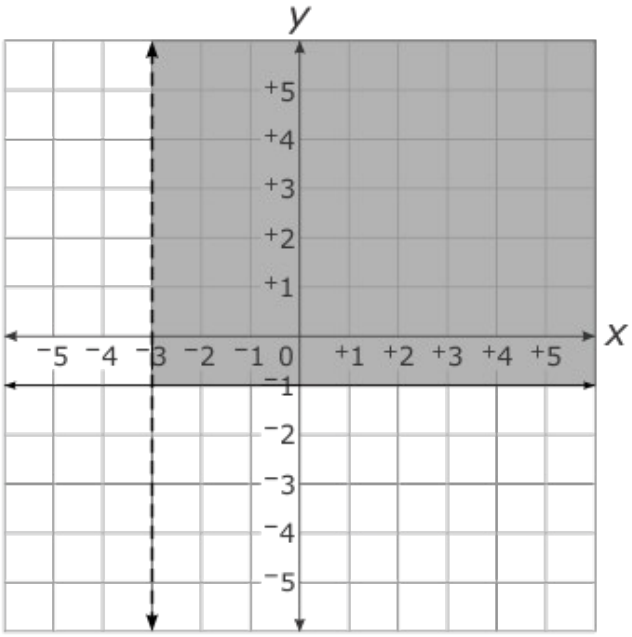
B. $5x + 5y > 10$
$2x - 3y \leq 6$

C. $5x + 5y \leq 10$
$2x - 3y > 6$

D. $5x + 5y < 10$
$2x - 3y \geq 6$

4.

Which system of inequalities is represented by the graph below?



A. $x \geq -3$
$y \geq -1$

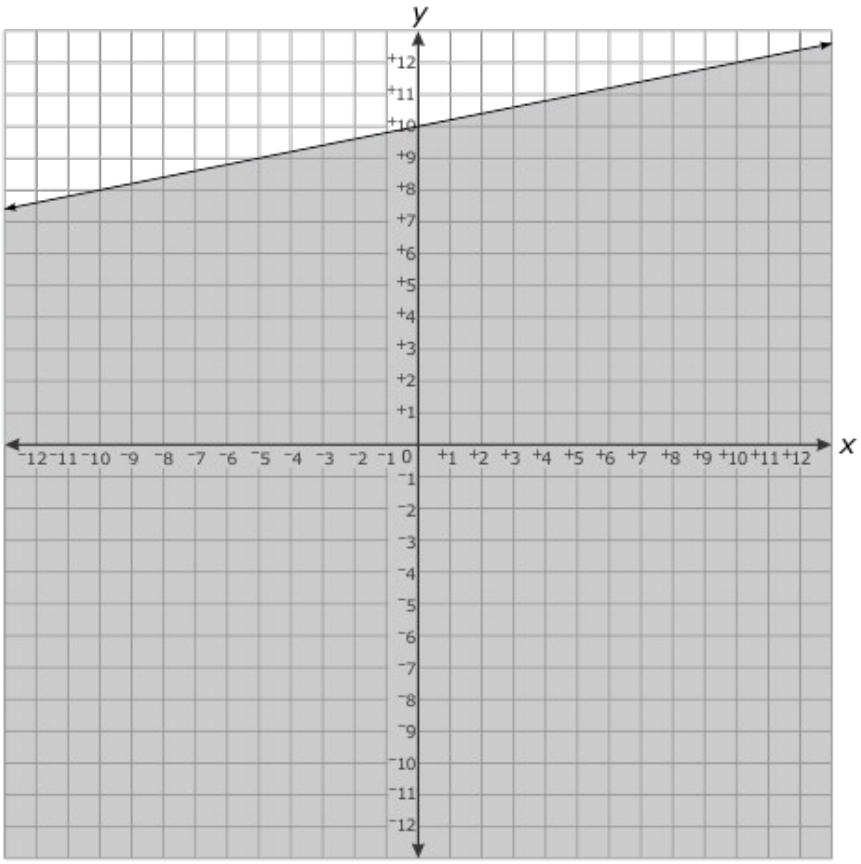
B. $x > -3$
$y \geq -1$

C. $x < -3$
$y \geq -1$

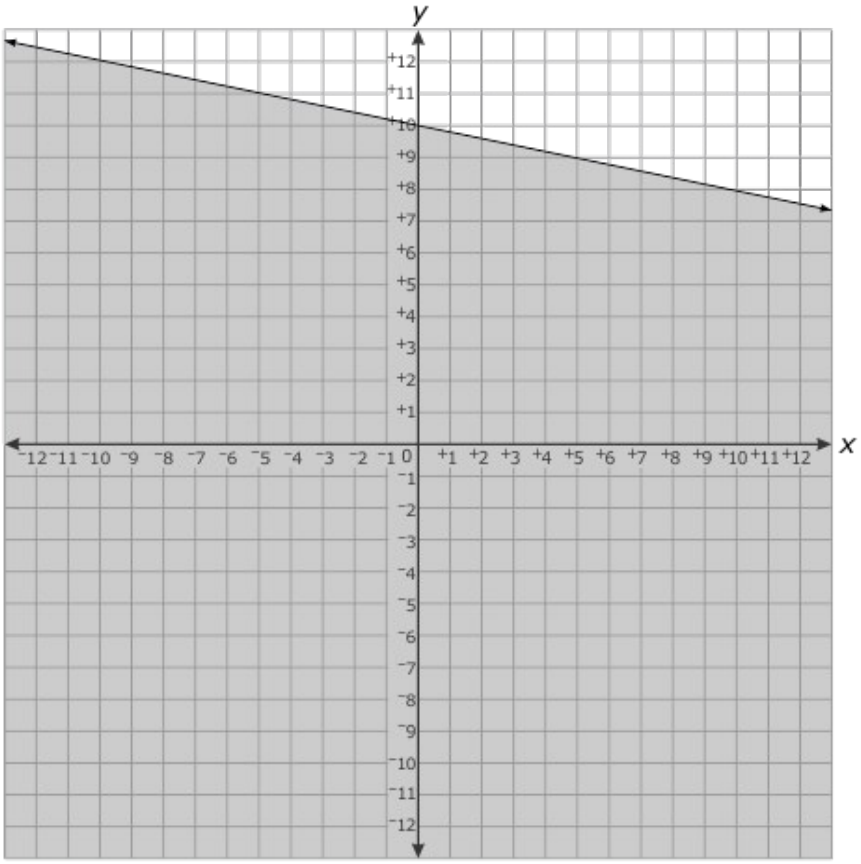
D. $x > -1$
$y \geq -3$

5. Which is the graph of the solutions to $y \leq \frac{1}{5}x + 10$?

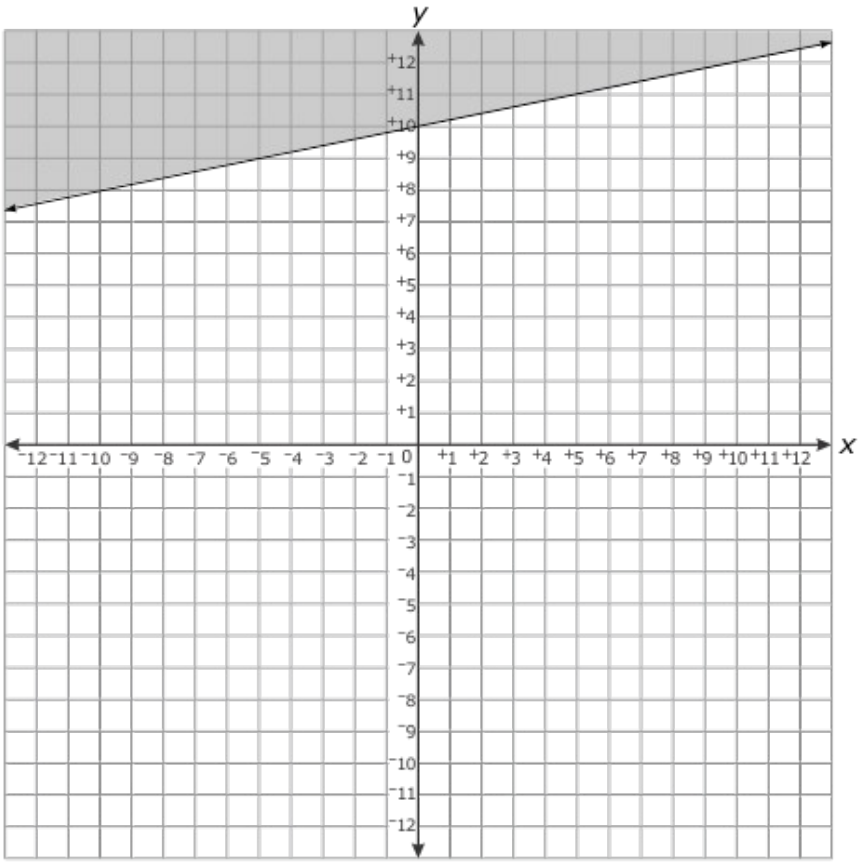
A.



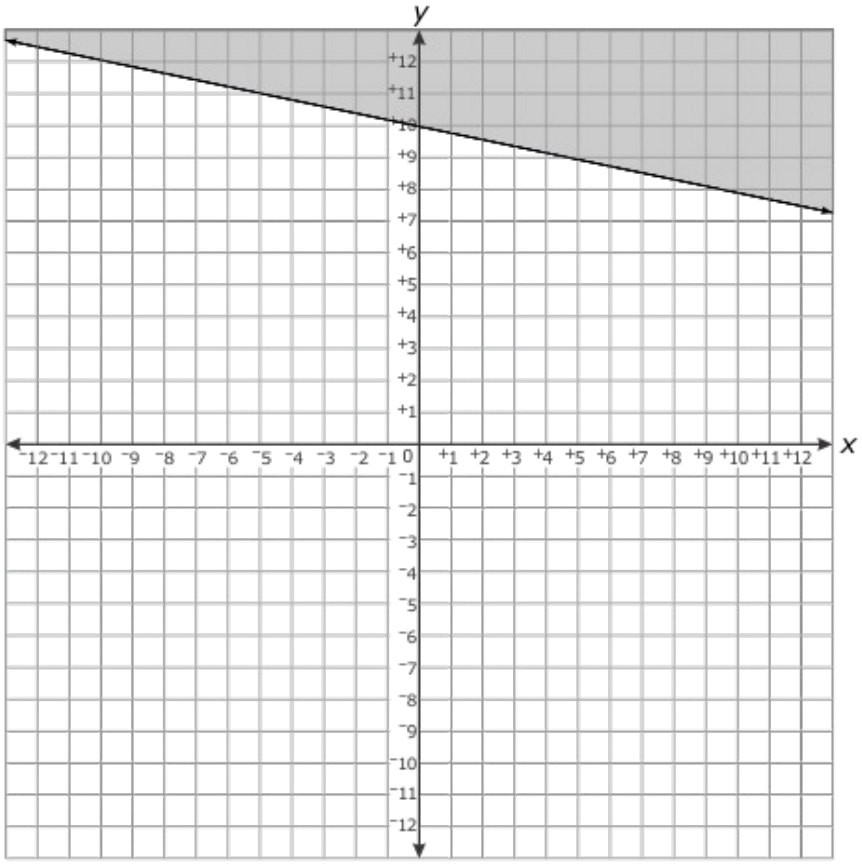
B.



C.



D.



6. Which ordered pair is a solution to the inequality $^{-}2x - 3y > 9$?

A. $(0, {}^{-}3)$

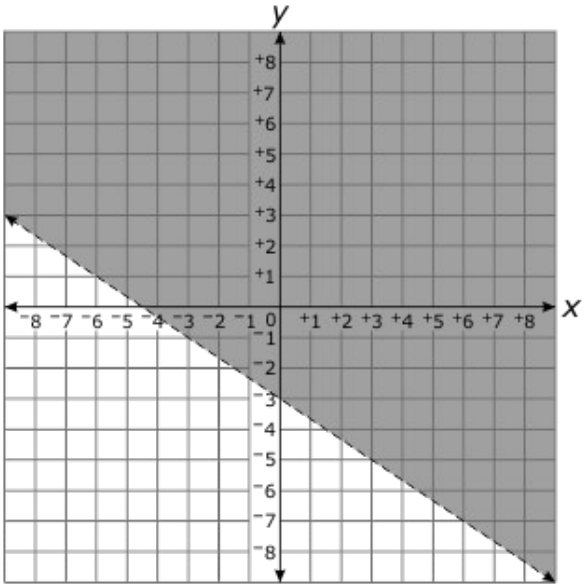
B. $({}^{-}4, 0)$

C. $(1, {}^{-}2)$

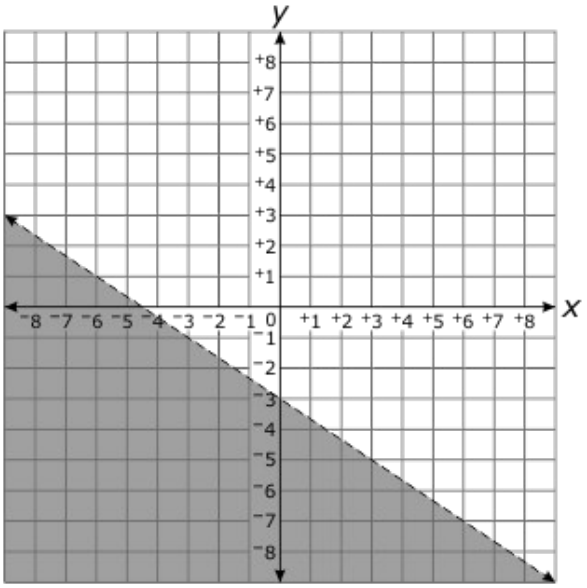
D. $({}^{-}2, {}^{-}3)$

7. Which is the graph of $^{-}2x - 3y \geq 9$?

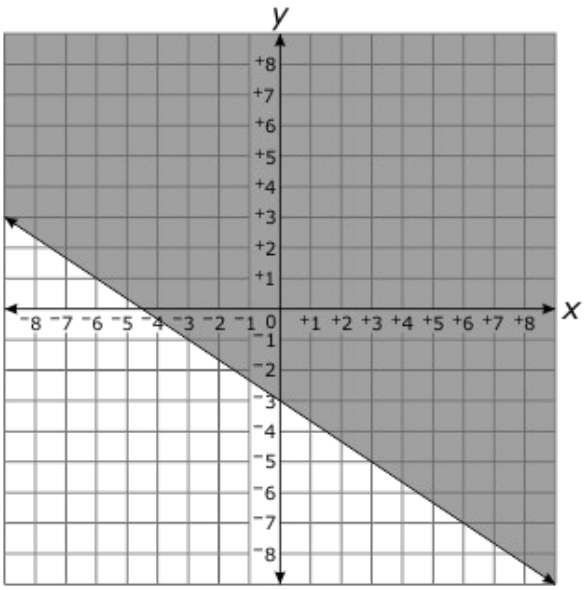
A.



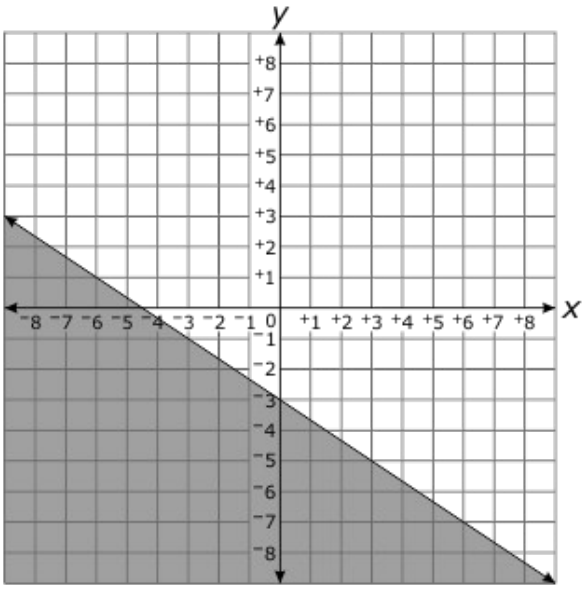
B.



C.



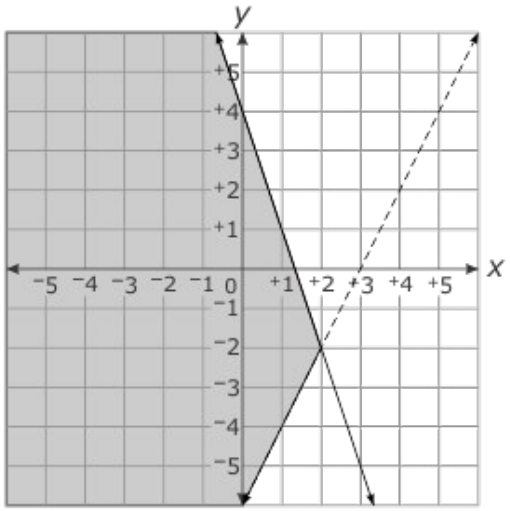
D.



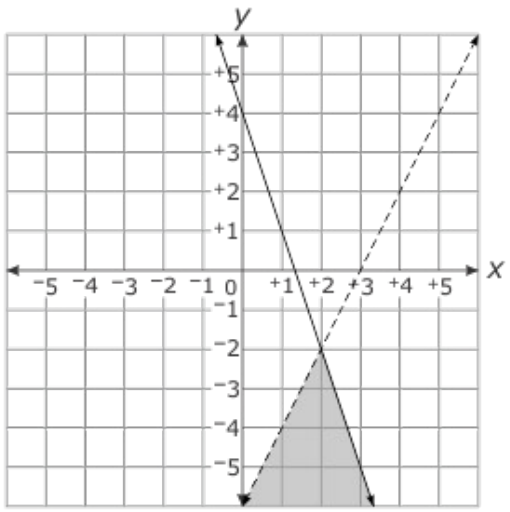
8. Which graph shows the solution set to the system of inequalities below?

$$y > 2x - 6$$
$$y \leq {}^{-}3x + 4$$

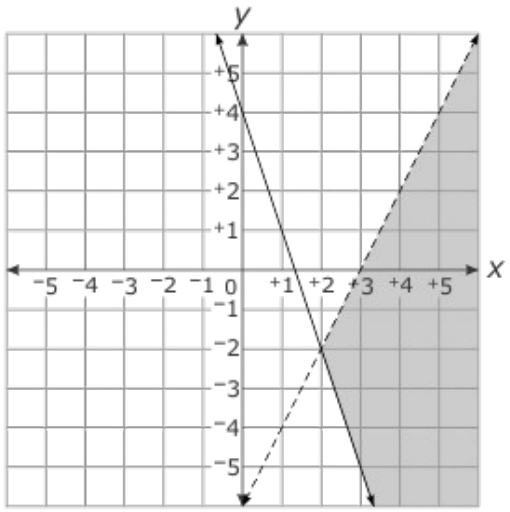
A.


y
x
+5
+4
+3
+2
+1
−5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5
−1
−2
−3
−4
−5

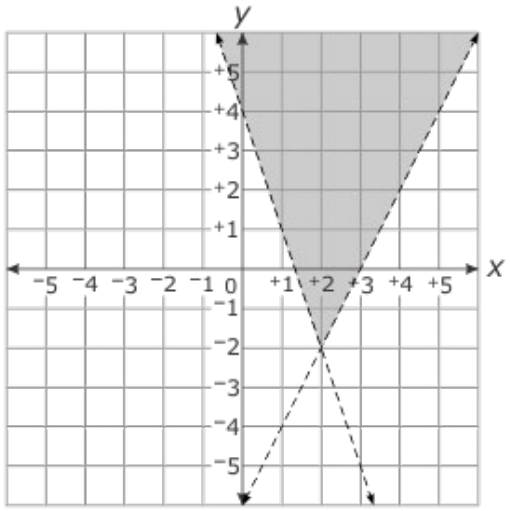
B.


y
x
+5
+4
+3
+2
+1
−5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5
−1
−2
−3
−4
−5

C.


y
x
+5
+4
+3
+2
+1
−5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5
−1
−2
−3
−4
−5

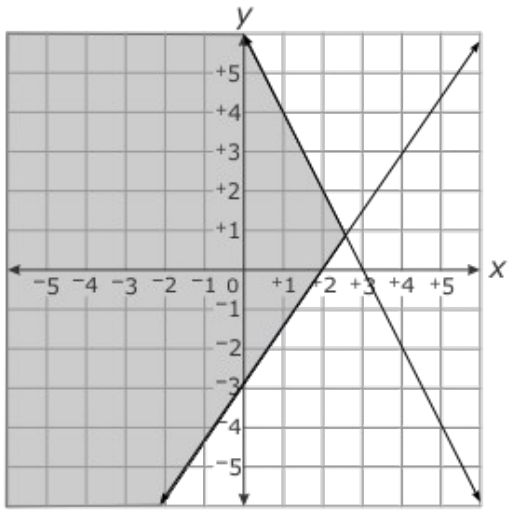
D.



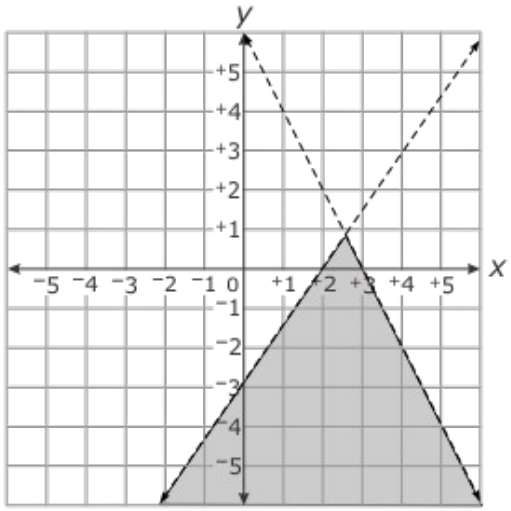
9. Which graph shows the solution set to the system of inequalities below?

$$3x - 2y \geq 6$$
$$4x + 2y \leq 12$$

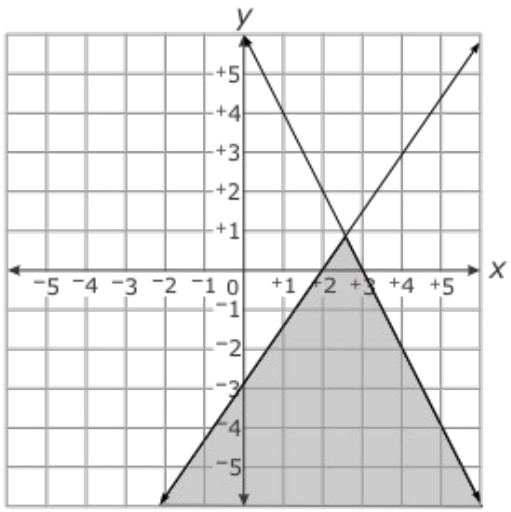
A.



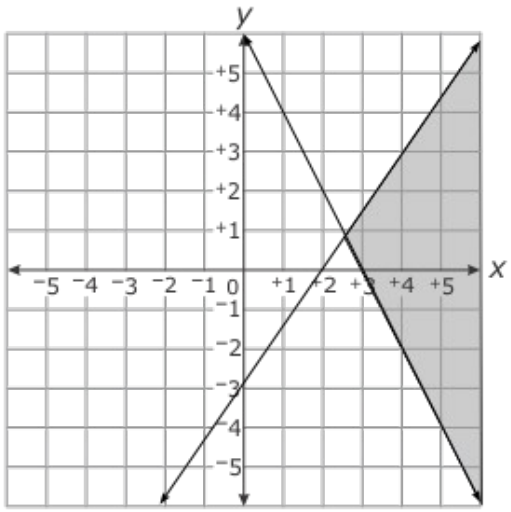
B.



C.

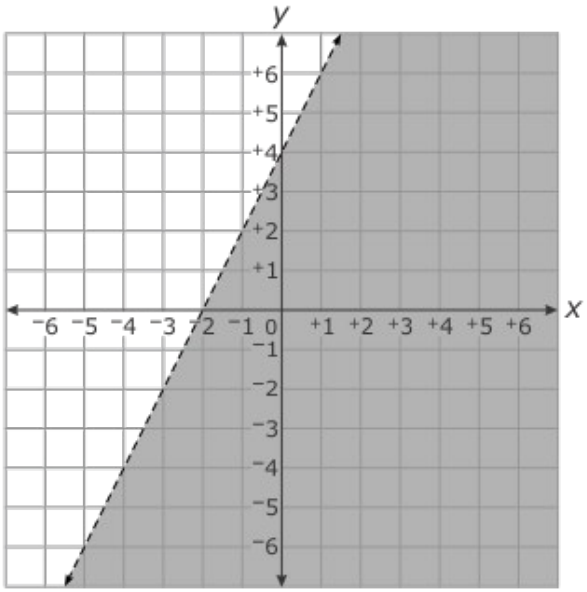


D.

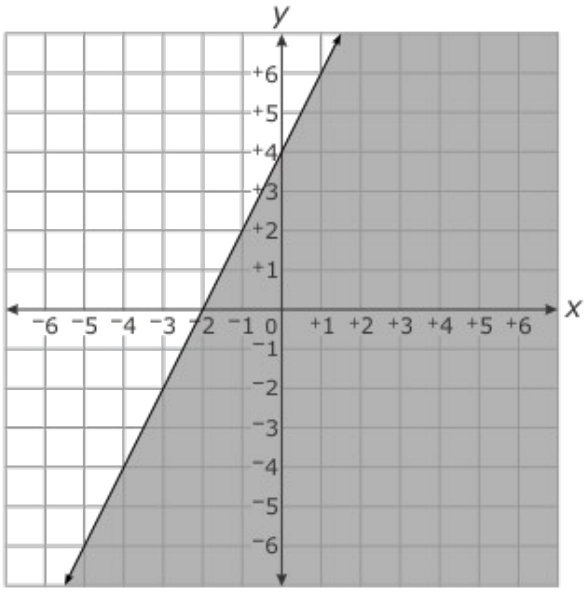


10. Which is the graph of the solutions to $y - 2x < 4$?

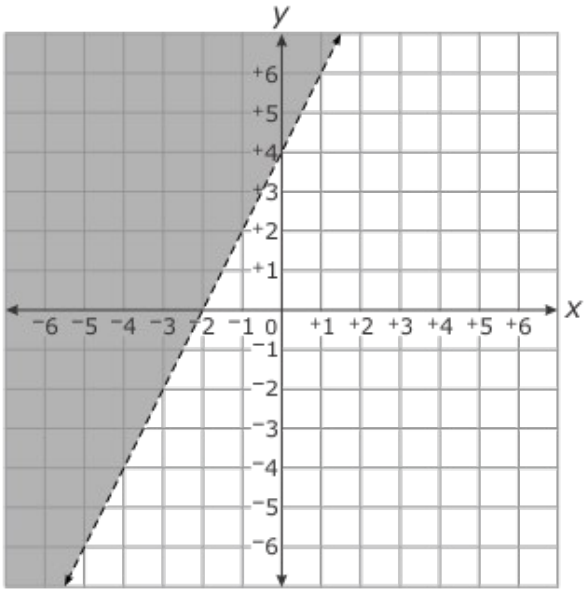
A.


y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

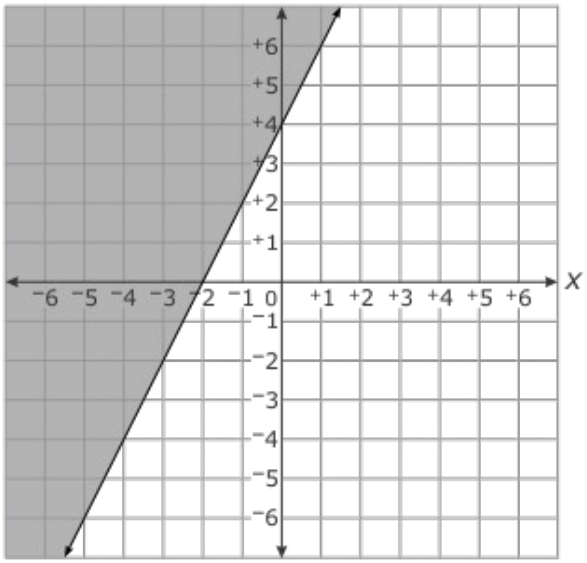
B.


y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

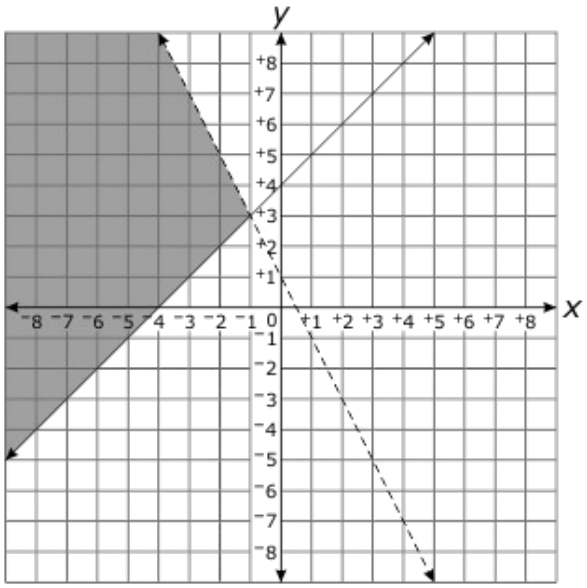
C.


y
x
+6
+5
+4
+3
+2
+1
−1
−2
−3
−4
−5
−6
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6

D.


x
+6
+5
+4
+3
+2
+1
−1
−2
−3
−4
−5
−6
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6

11. Which system of inequalities is graphed below?



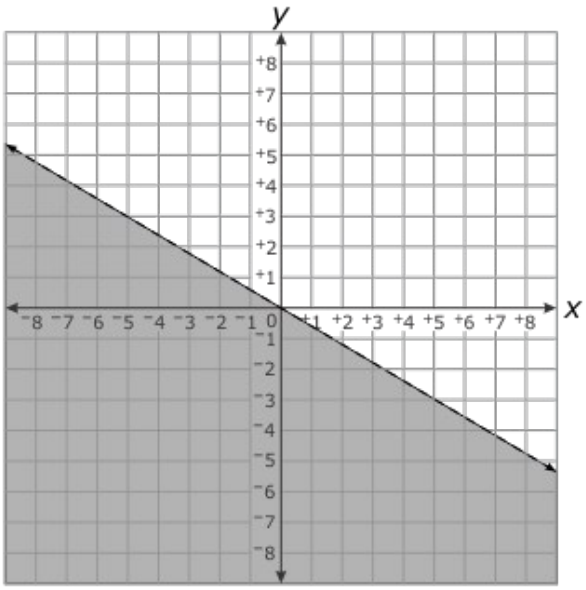
A. $y > x + 4$
$y \leq 1 - 2x$

B. $y < x + 4$
$y \geq 1 - 2x$

C. $y \geq x + 4$
$y < 1 - 2x$

D. $y \leq x + 4$
$y > 1 - 2x$

12. Which inequality is graphed below?



A. $3x - 5y > 0$

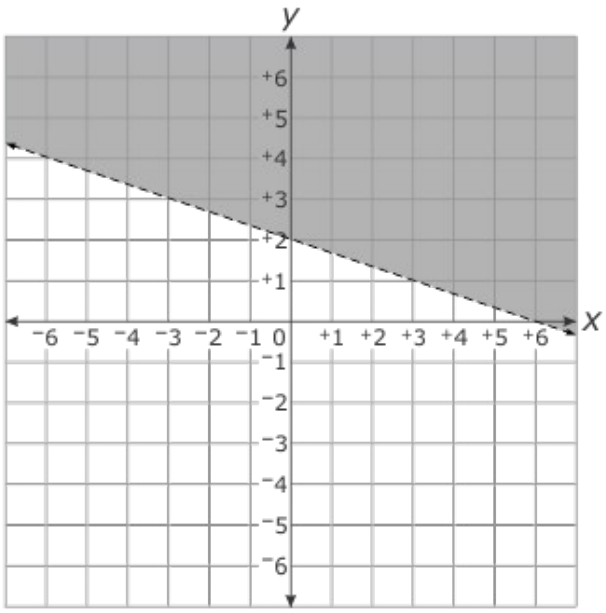
B. $3x - 5y < 0$

C. $3x + 5y > 0$

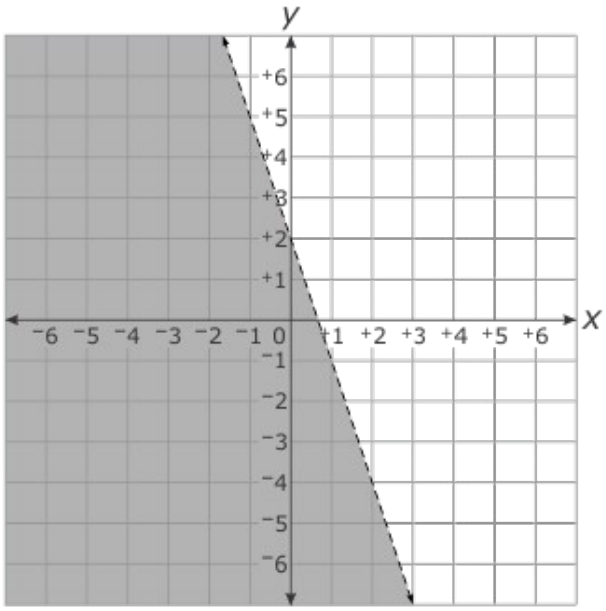
D. $3x + 5y < 0$

13. Which graph shows the solution set to $y > {}^{-}3x + 2$?

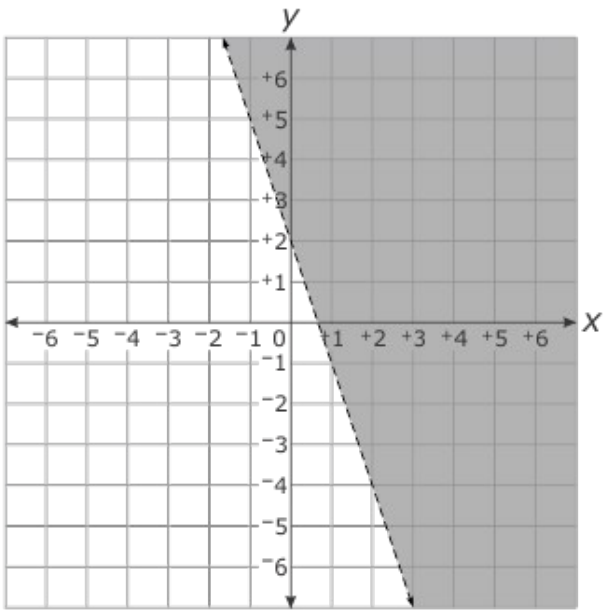
A.



B.


y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

C.


y
x
+6
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+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
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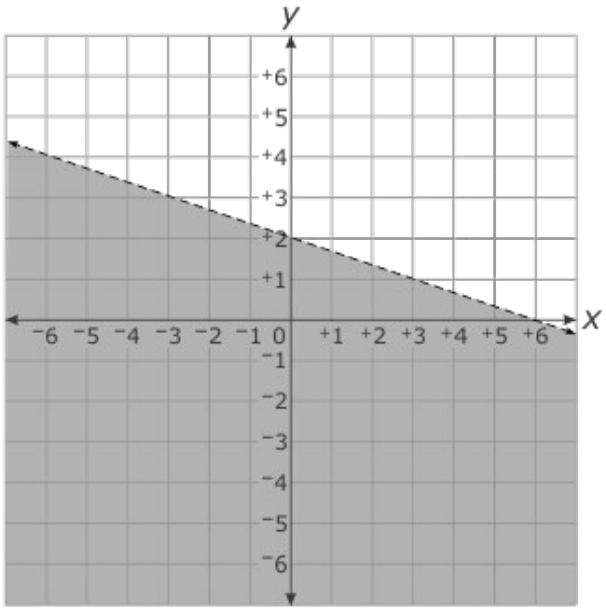
−4
−5
−6

D.

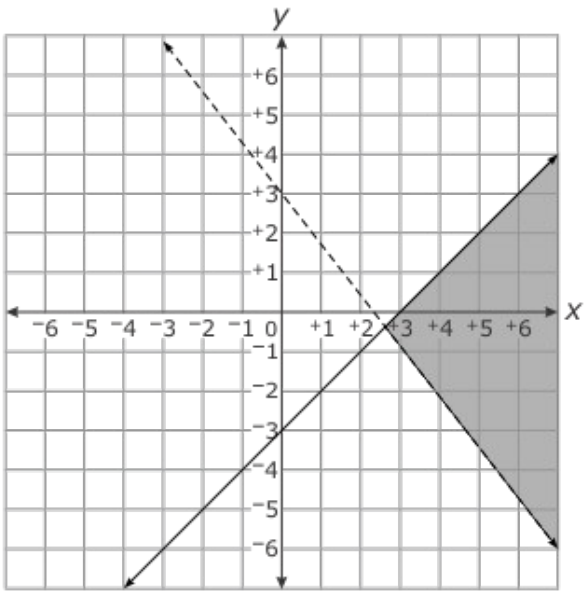


14. A system of inequalities is shown below.

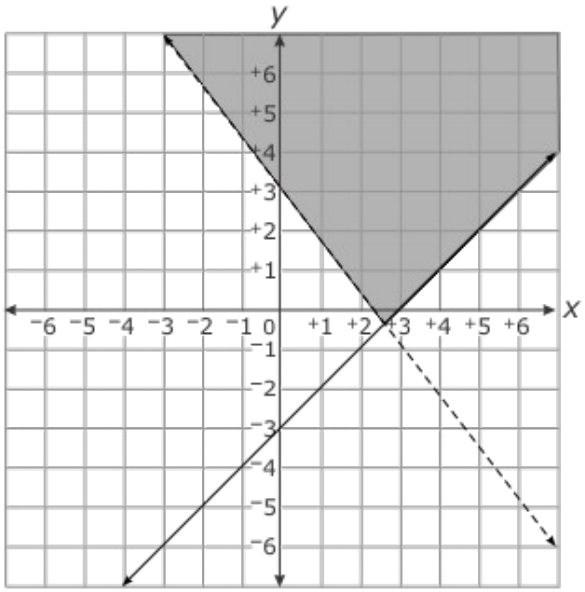
$$2x - 2y \leq 6$$
$$4x + 3y > 9$$

Which graph shows the solution set to the system?

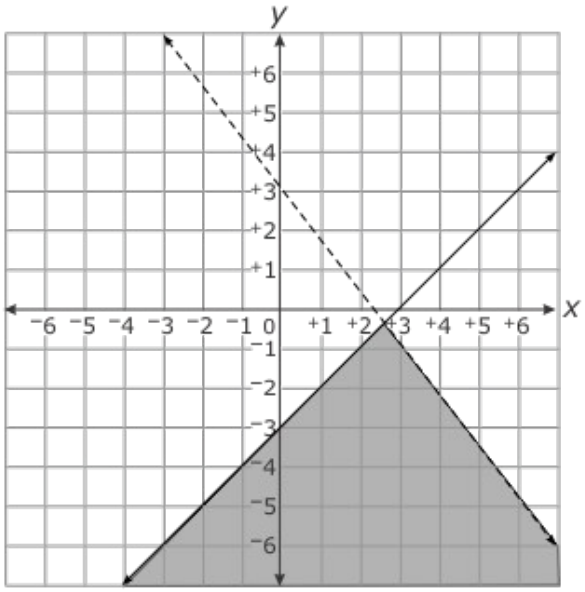
A.



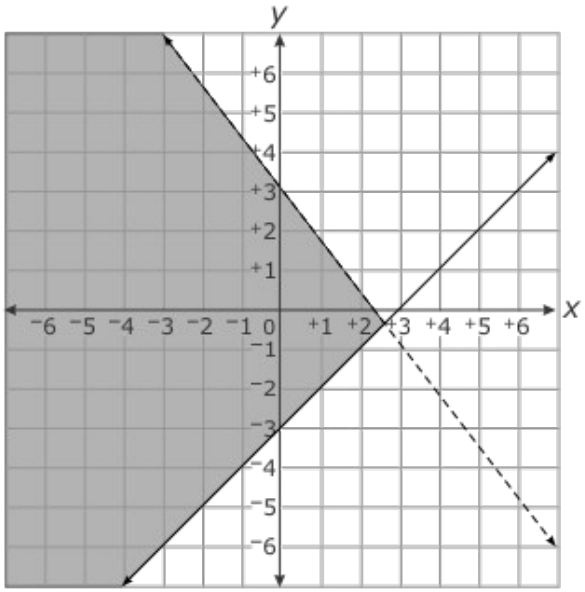
B.


y
x
+6
+5
+4
+3
+2
+1
−1
−2
−3
−4
−5
−6
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6

C.


y
x
+6
+5
+4
+3
+2
+1
−1
−2
−3
−4
−5
−6
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6

D.



15. A system of inequalities is shown below.

$$^{-}4x + 3y < 6$$
$$y > {}^{-}2x + 3$$

Which point is a solution to the system?

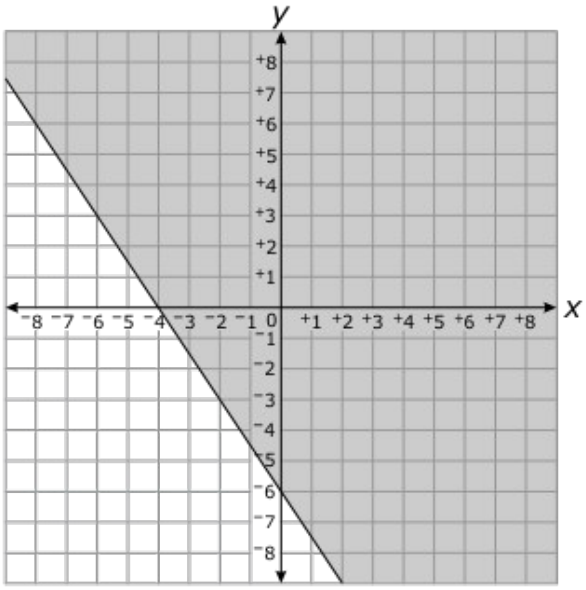
A. $(^{-}3, 10)$

B. $(^{-}1, 5)$

C. $(^{-}1, 2)$

D. $(5, {}^{-}2)$

16. Which inequality is graphed below?



A. $y > \frac{-3}{2}x - 6$

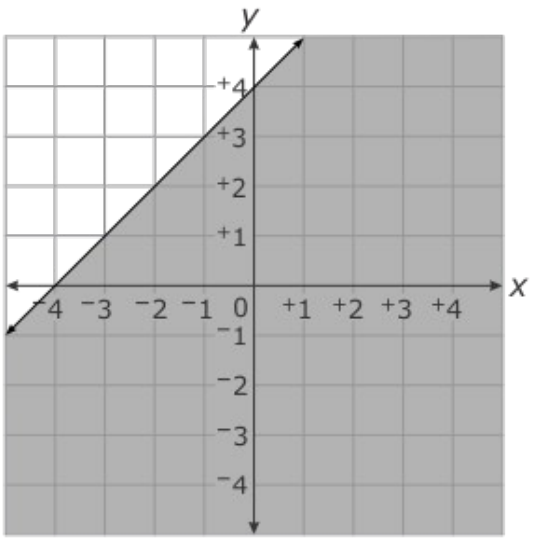
B. $y < \frac{-3}{2}x - 6$

C. $y \geq \frac{-3}{2}x - 6$

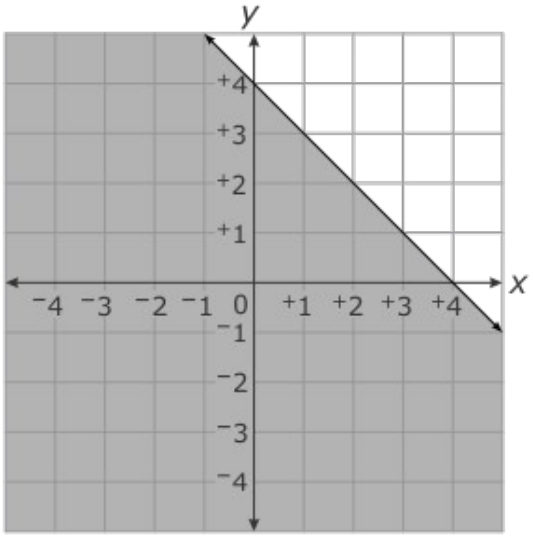
D. $y \leq \frac{-3}{2}x - 6$

17. Which graph shows the solution set for $y \leq {}^{-}x + 4$?

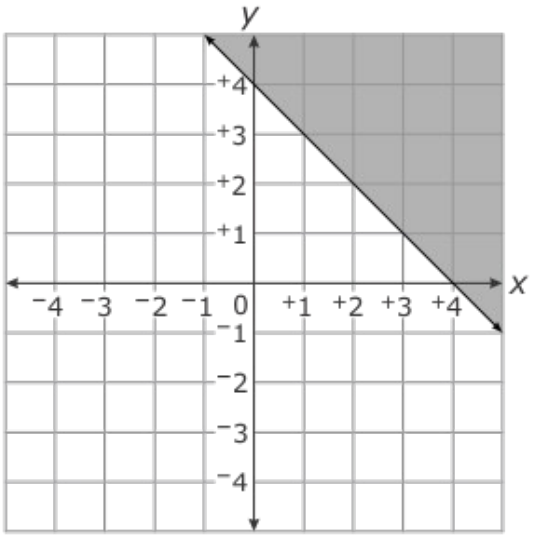
A.



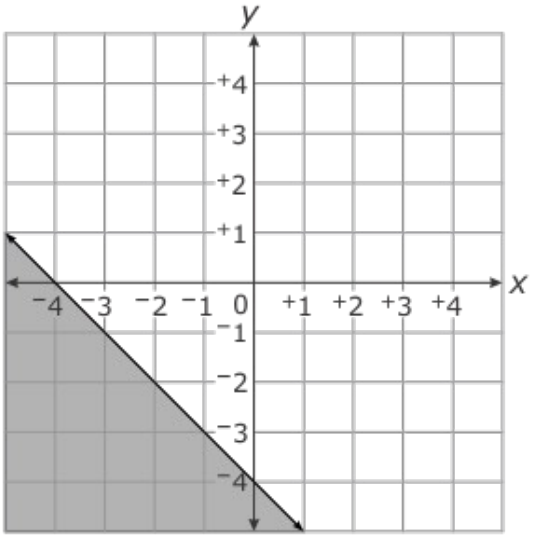
B.


y
x
+4
+3
+2
+1
−4 −3 −2 −1 0 +1 +2 +3 +4
−1
−2
−3
−4

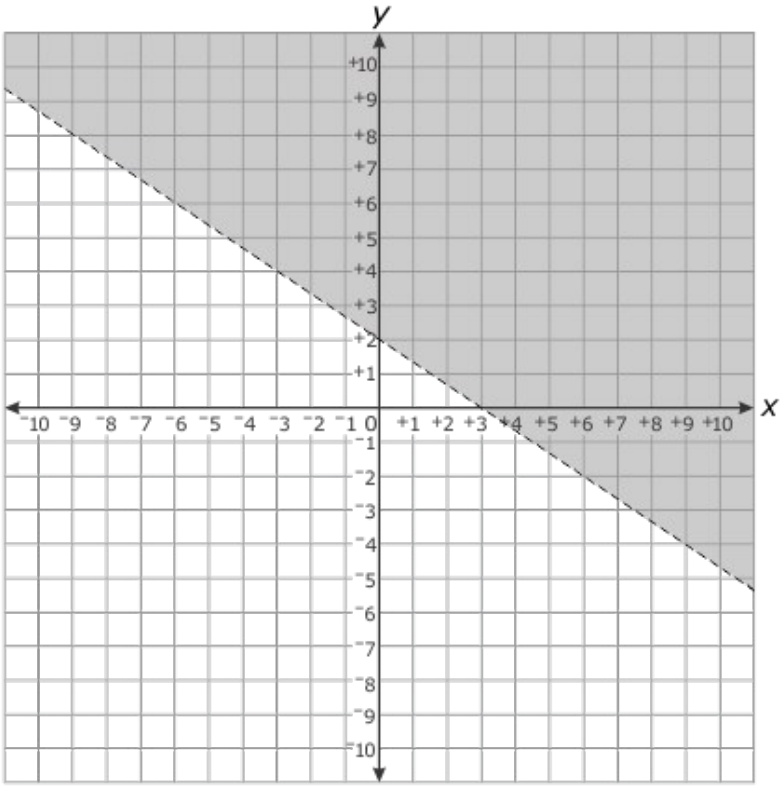
C.


y
x
+4
+3
+2
+1
−4 −3 −2 −1 0 +1 +2 +3 +4
−1
−2
−3
−4

D.


y
x
+4
+3
+2
+1
−4 −3 −2 −1 0 +1 +2 +3 +4
−1
−2
−3
−4

18. Which inequality is graphed below?



A. $3y < 2x - 2$

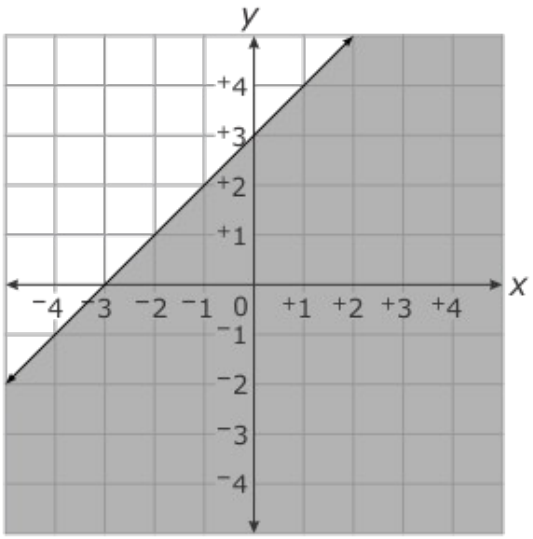
B. $y > \frac{2}{3}x + 2$

C. $3y > 6 - 2x$

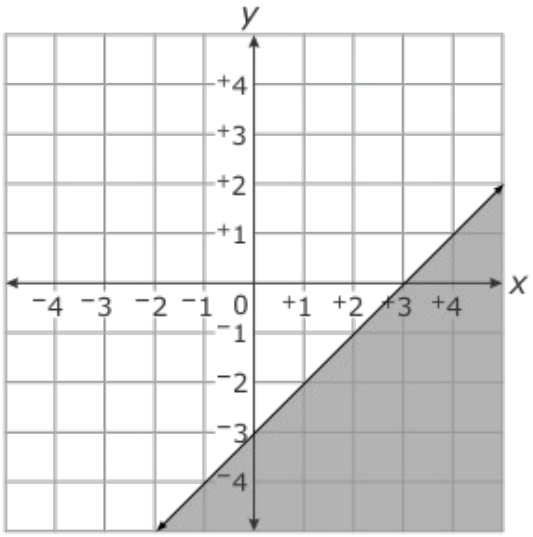
D. $y + \frac{2}{3}x < 2$

19. Which is the graph of the solutions to $x - y \geq 3$?

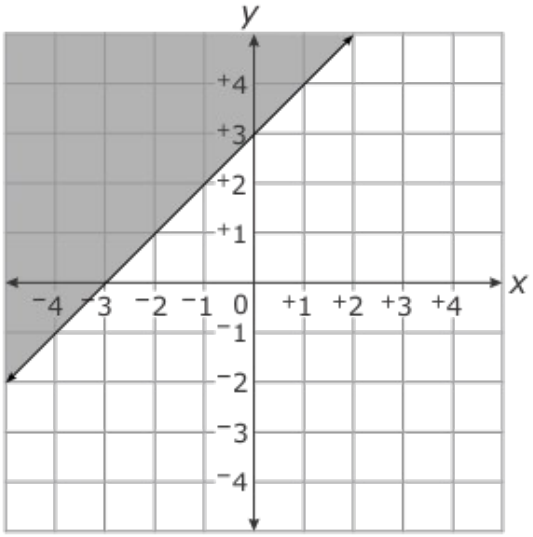
A.


y
x
+4
+3
+2
+1
−4 −3 −2 −1 0 +1 +2 +3 +4
−1
−2
−3
−4

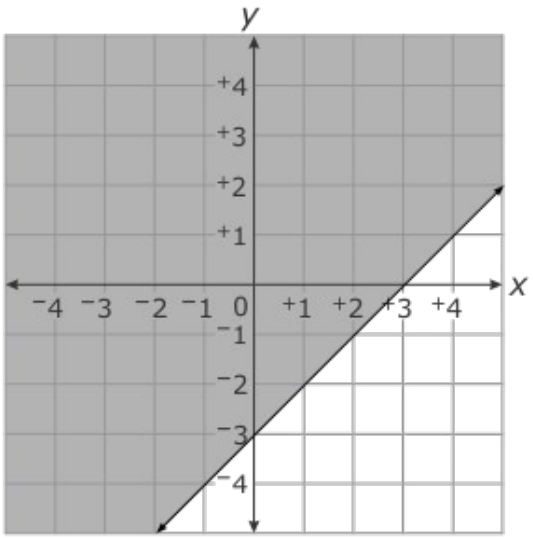
B.


y
x
+4
+3
+2
+1
−4 −3 −2 −1 0 +1 +2 +3 +4
−1
−2
−3
−4

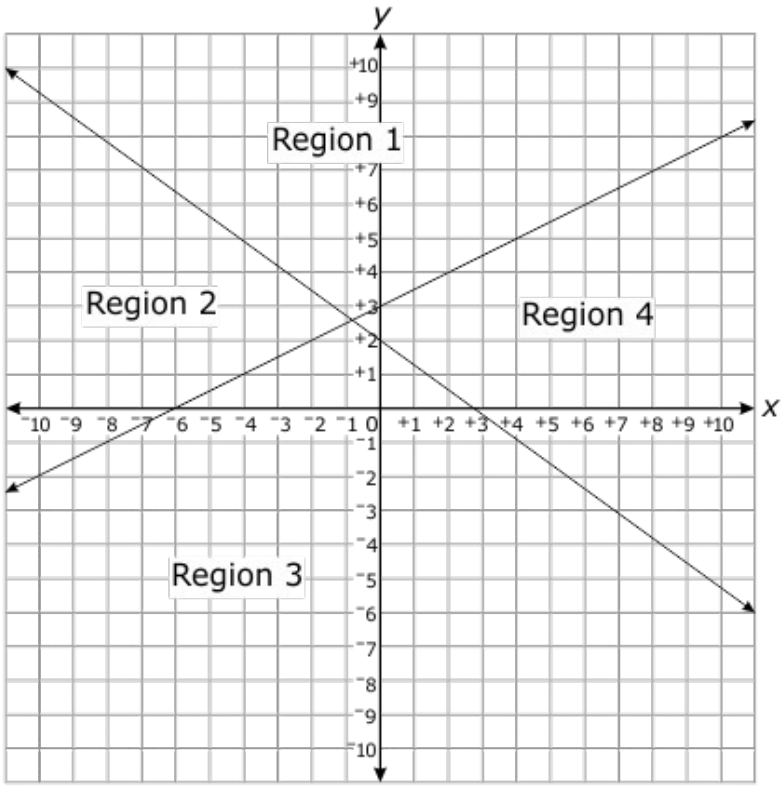
C.


y
x
+4
+3
+2
+1
−4 −3 −2 −1 0 +1 +2 +3 +4
−1
−2
−3
−4

D.



20. The equations $3x + 4y = 8$ and $^{-}2x + 4y = 12$ are graphed below.



Which region indicates the intersection of the system $3x + 4y \geq 8$ and $^{-}2x + 4y \geq 12$?

A. Region 1

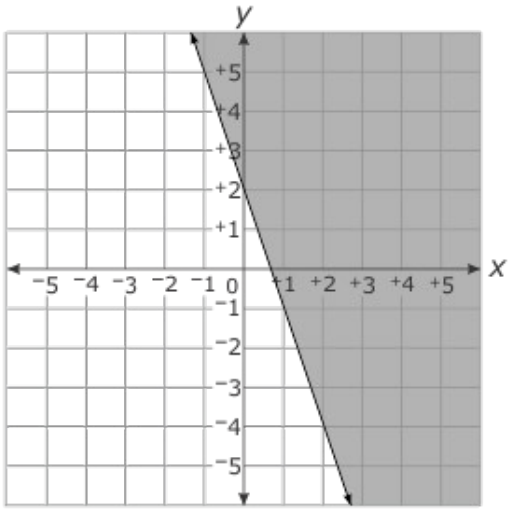
B. Region 2

C. Region 3

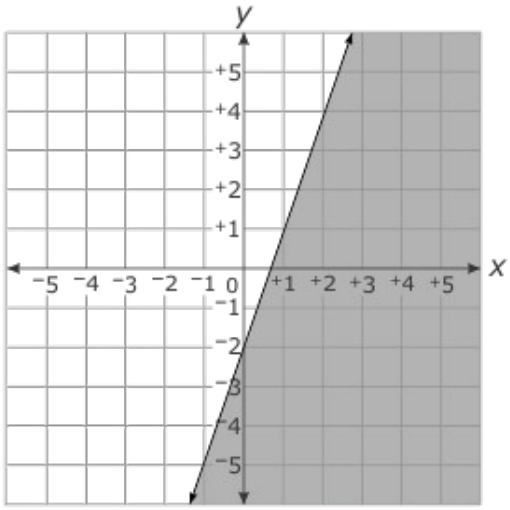
D. Region 4

21. Which graph shows the solution to $3x - y \leq 2$?

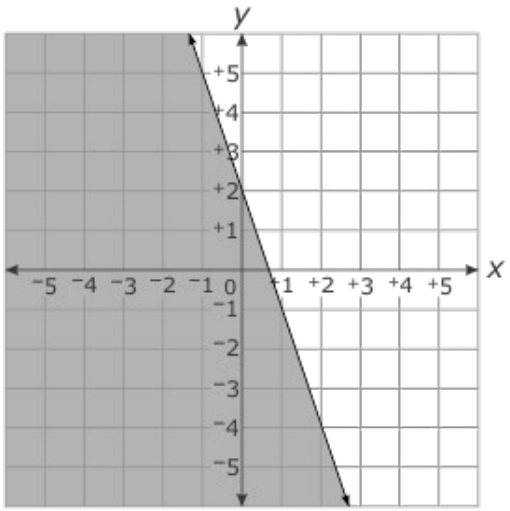
A.


y
x
+5
+4
+3
+2
+1
−5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5
−1
−2
−3
−4
−5

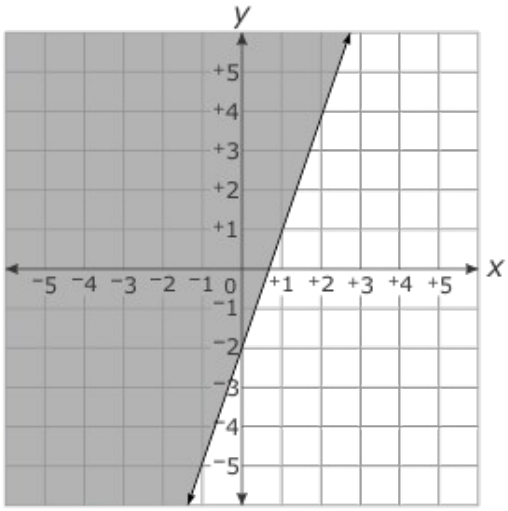
B.


y
x
+5
+4
+3
+2
+1
−5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5
−1
−2
−3
−4
−5

C.


y
x
+5
+4
+3
+2
+1
−5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5
−1
−2
−3
−4
−5

D.



22. Which quadrants contain solutions of the inequality $y < 3x - 7$?

A. II, III, and IV

B. I, III, and IV

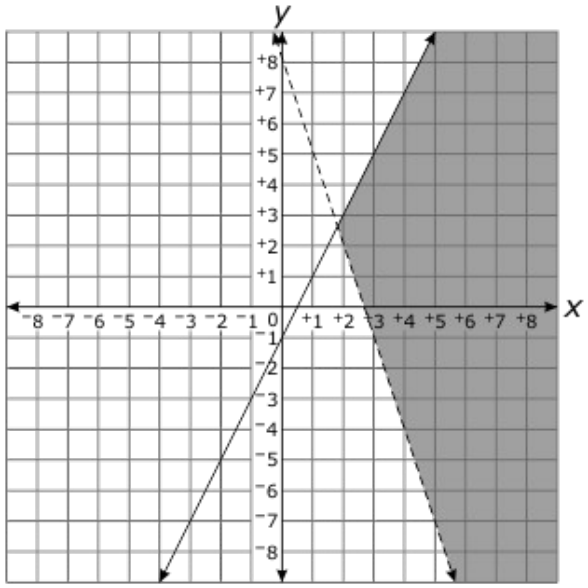
C. I and IV

D. II and IV

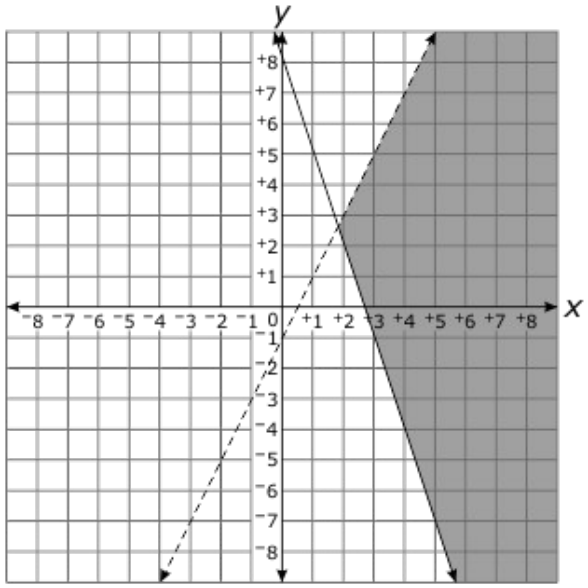
23. Which is the graph of the system of inequalities shown below?

$$y > 8 - 3x$$
$$y \leq 2x - 1$$

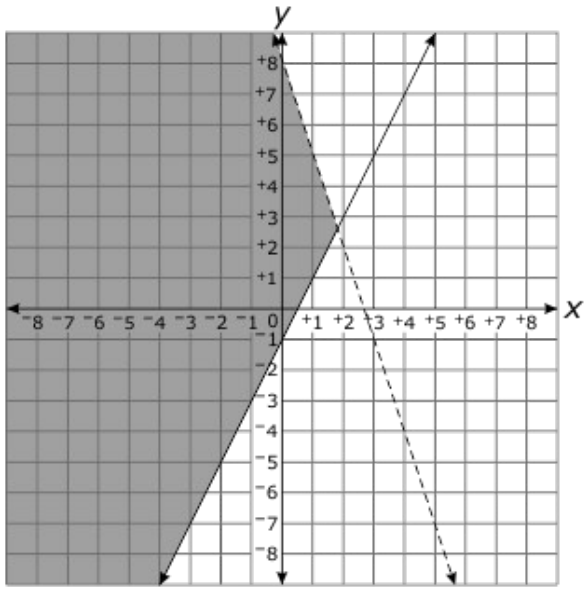
A.



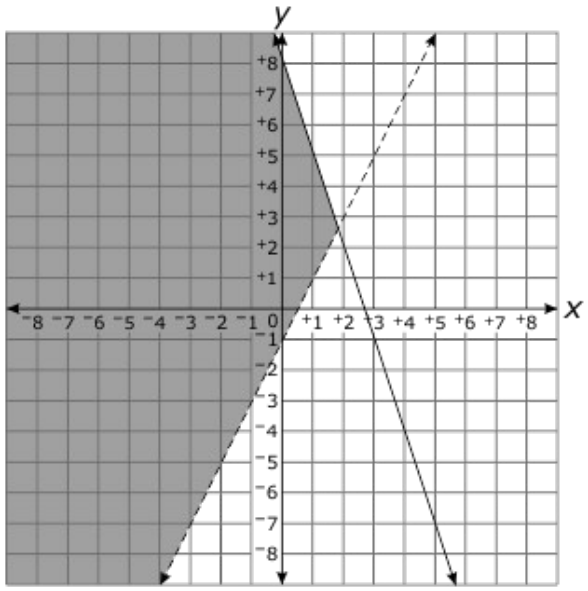
B.



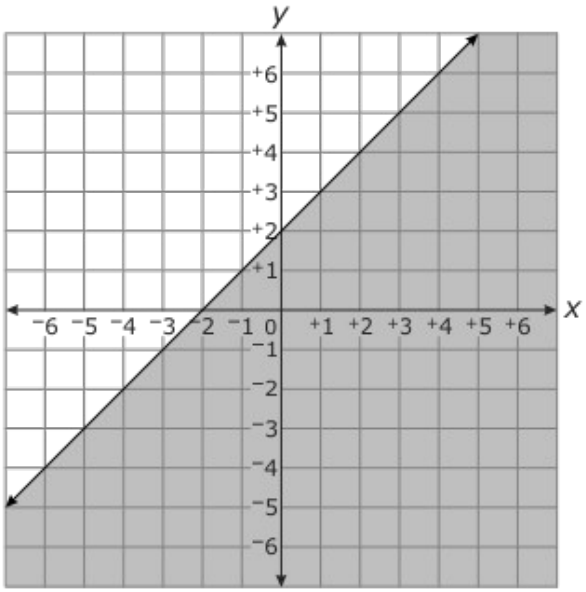
C.



D.



24. Which inequality is graphed below?



A. $x \geq y - 2$

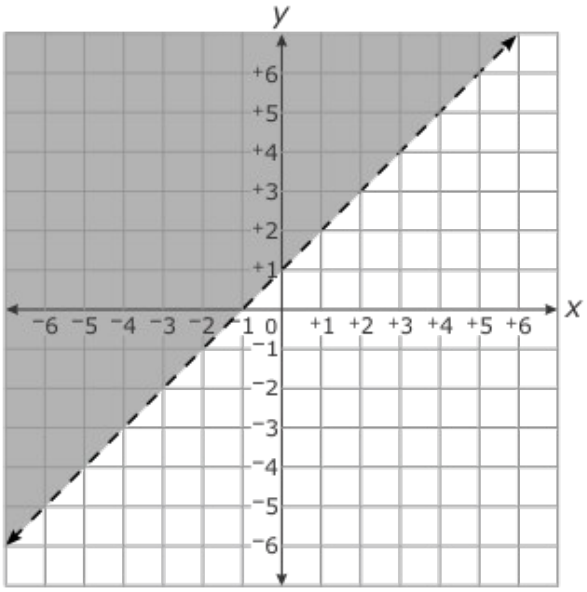
B. $x \leq y - 2$

C. $x - 2 \geq y$

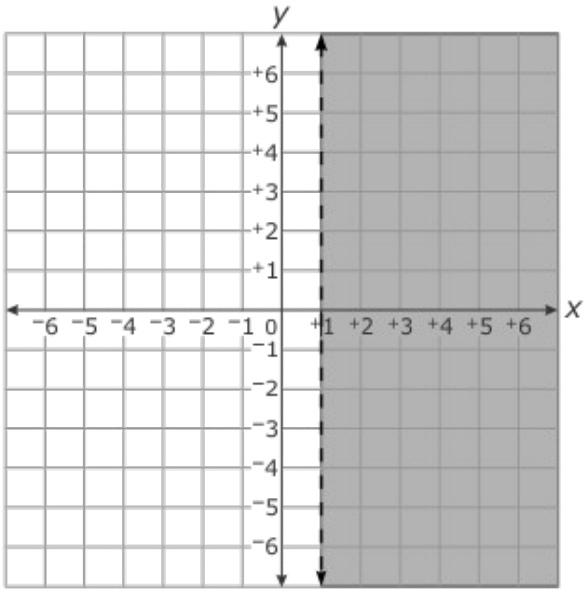
D. $x - 2 \leq y$

25. Which graph shows the solution set for the inequality $y > x + 1$?

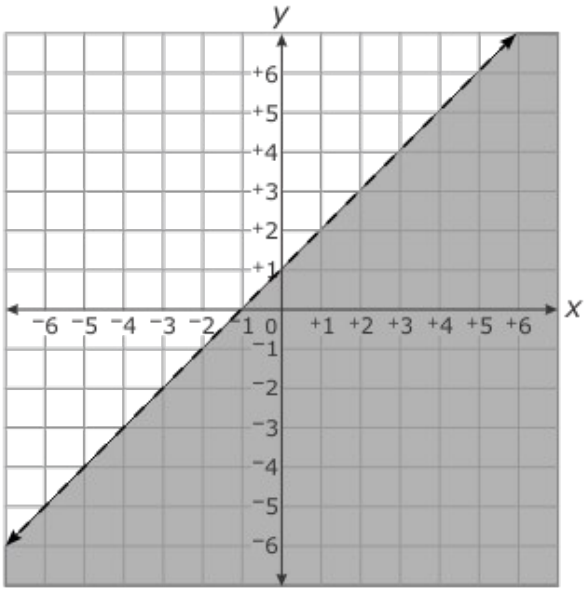
A.



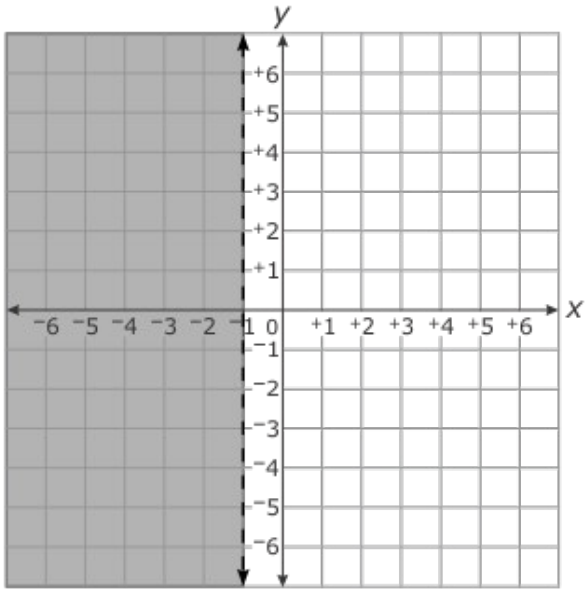
B.


y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

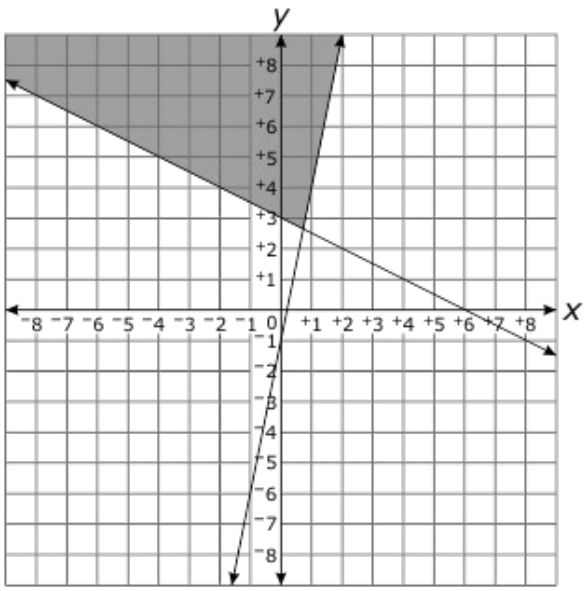
C.


y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

D.



26. Which system of inequalities is graphed below?



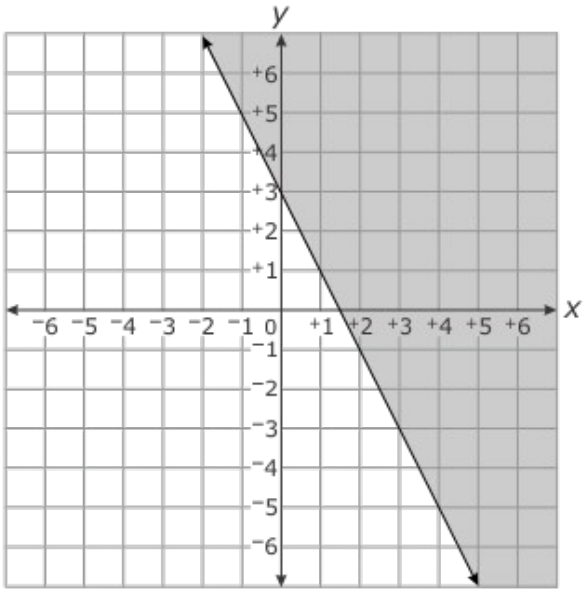
A. $y \geq \frac{-1}{2}x + 3$ and $y \geq 5x - 1$

B. $y \geq \frac{-1}{2}x + 3$ and $y \leq 5x - 1$

C. $y \leq \frac{-1}{2}x + 3$ and $y \geq 5x - 1$

D. $y \leq \frac{-1}{2}x + 3$ and $y \leq 5x - 1$

27. Which inequality is graphed below?



A. $y \leq -2x + 3$

B. $y \geq -2x + 3$

C. $y \leq 2x + 3$

D. $y \geq 2x + 3$

28. A system of inequalities is shown below.

$$y > \frac{1}{2}x - 5$$

$$y < -3x + 3$$

Which point is a solution to the system?

A. $(-2, 6)$

B. $(0, -5)$

C. $(0, 3)$

D. $(5, -1)$

29. Which point is a solution to $y > -3x + 6$?

A. (0, 6)

B. $(1, -2)$

C. (1, 2)

D. (4, 5)

30. Which point satisfies the system below?

$$y \geq -2x + 2$$

$$y \leq 2x + 2$$

A. $(-1, -2)$

B. (0, 0)

C. (0, 4)

D. $(2, -1)$

31. A system of inequalities is shown below.

$$6x - 3y \geq 18$$
$$2x + 6y > 12$$

Which point is a solution to the system?

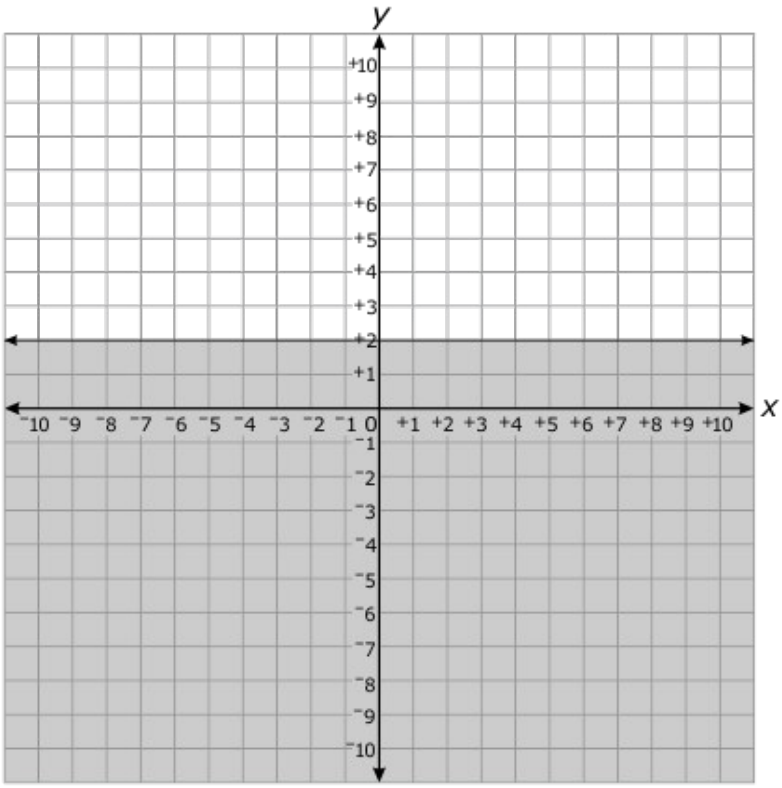
A. (0, 0)

B. (4, 2)

C. (6, 0)

D. (3, 8)

32. Which inequality is graphed below?



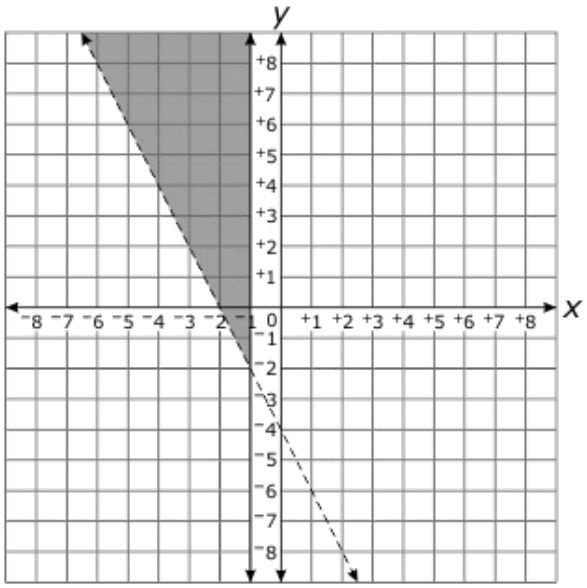
A. $y \leq x + 2$

B. $y \geq x + 2$

C. $y \geq 2$

D. $y \leq 2$

33. Which system of inequalities is graphed below?



A. $y < 2x - 4$
$x \geq 1$

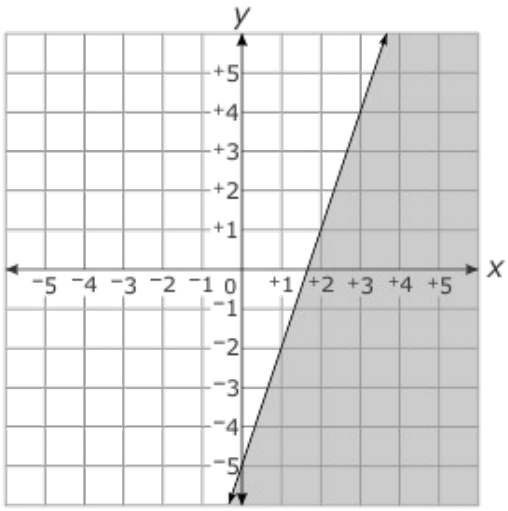
B. $^{-}2x - y < 4$
$^{-}x \geq 1$

C. $^{-}2x - y > 4$
$^{-}x \leq 1$

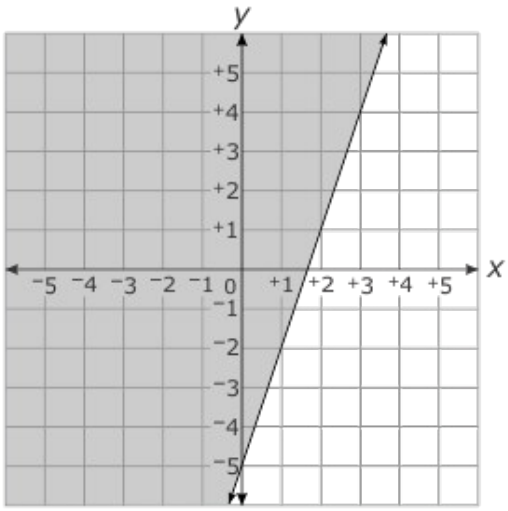
D. $y > 2x - 4$
$x \leq 1$

34. Which is the graph of the inequality in which y must be at least 5 greater than 3 times x?

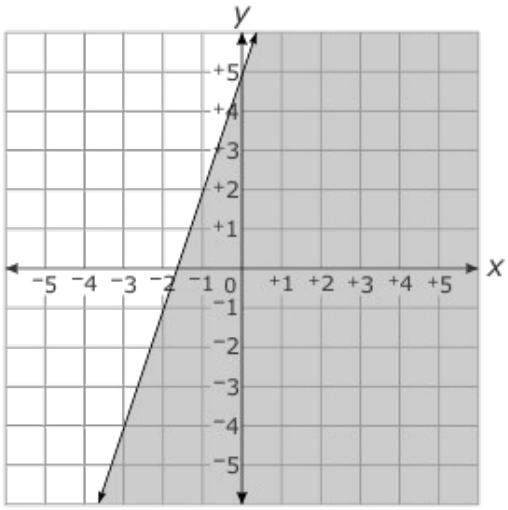
A.



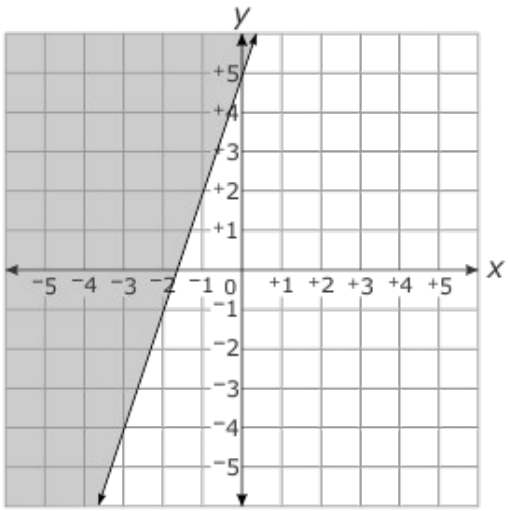
B.


y
x
+5
+4
+3
+2
+1
−5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5
−1
−2
−3
−4
−5

C.


y
x
+5
+4
+3
+2
+1
−5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5
−1
−2
−3
−4
−5

D.


y
x
+5
+4
+3
+2
+1
−5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5
−1
−2
−3
−4
−5

35. Which quadrants on the coordinate grid contain the solutions to $^{-}7y \leq 8x - 56$?

A. I, II, and III

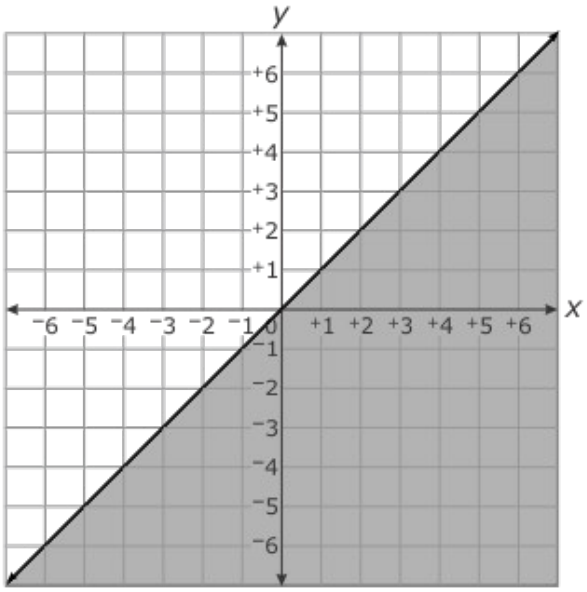
B. I, II, and IV

C. I, III, and IV

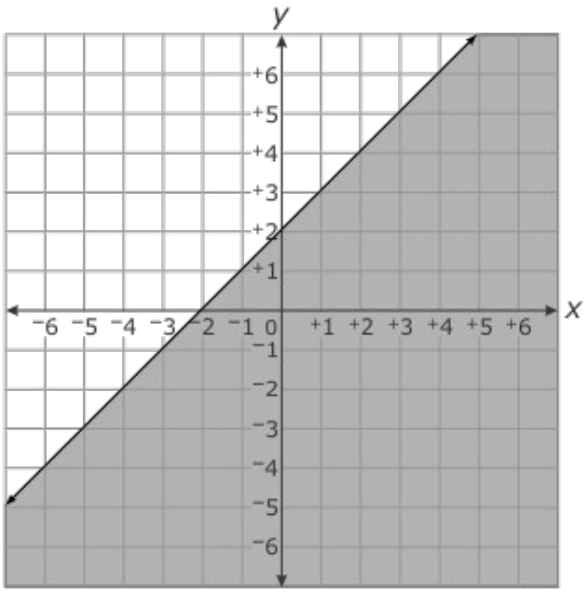
D. II, III, and IV

36. Which is the graph of the solutions to $y \leq x + 2$?

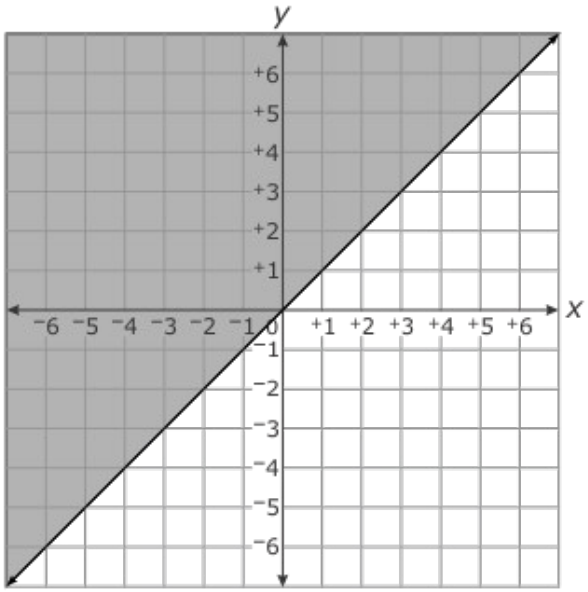
A.



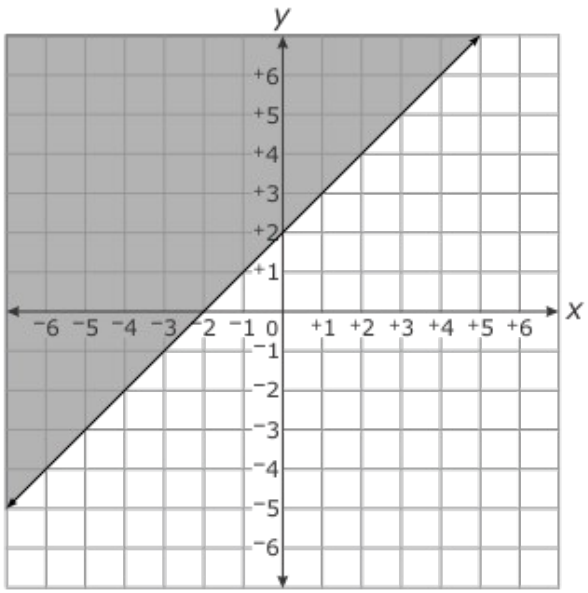
B.



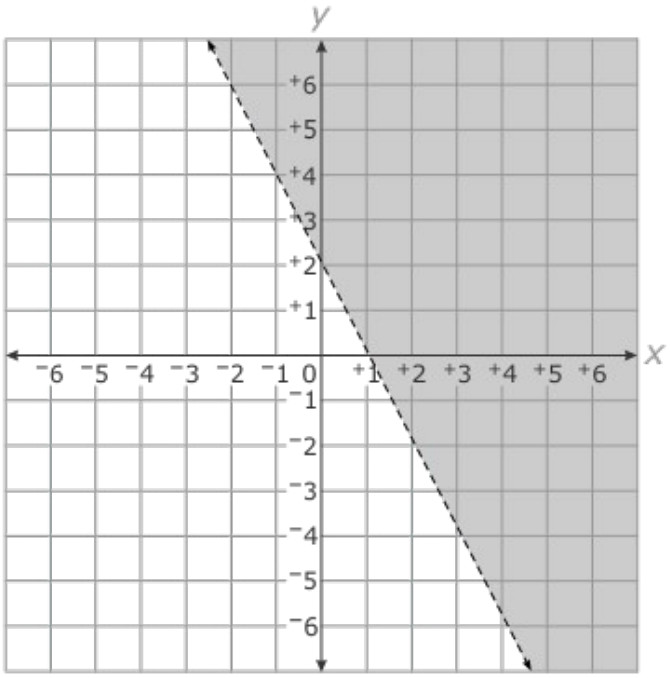
C.


y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

D.


y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

37. Which inequality is graphed below?



A. $2x + y \geq 2$

B. $2x + y \leq 2$

C. $2x + y > 2$

D. $2x + y < 2$