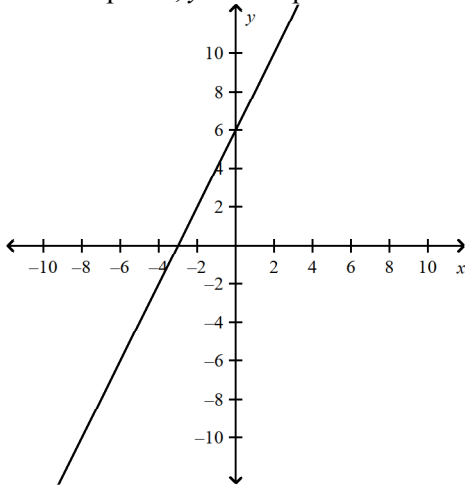


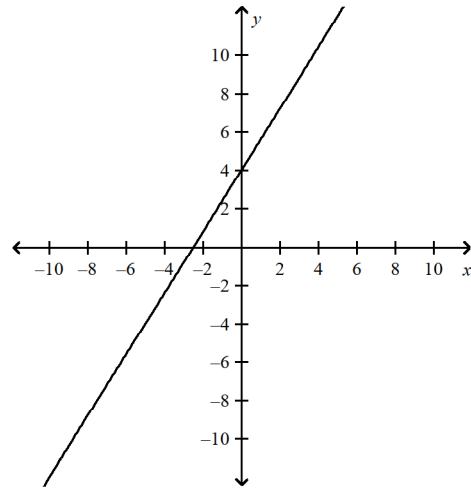


3. Find the intercepts of  $-4x + 2y = 12$ , and graph the line.

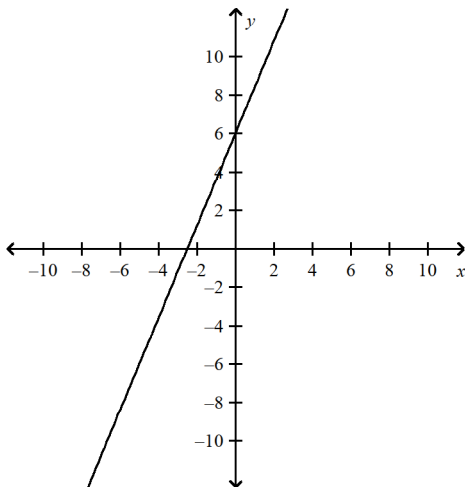
a. x-intercept:  $-3$ , y-intercept:  $6$



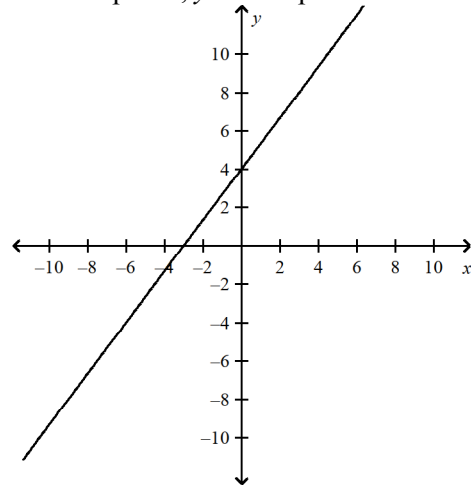
c. x-intercept:  $-\frac{5}{2}$ , y-intercept:  $4$



b. x-intercept:  $-\frac{5}{2}$ , y-intercept:  $6$



d. x-intercept:  $-3$ , y-intercept:  $4$



4. Solve  $5(21 + 7x) = -70$ .

a.  $x = -5$

c.  $x = -13$

b.  $x = 1$

d.  $x = -25$

5. Determine whether the data set could represent a linear function.

| $x$ | $f(x)$ |
|-----|--------|
| 0   | 4      |
| 1   | 5      |
| 1   | 6      |
| 2   | 8      |

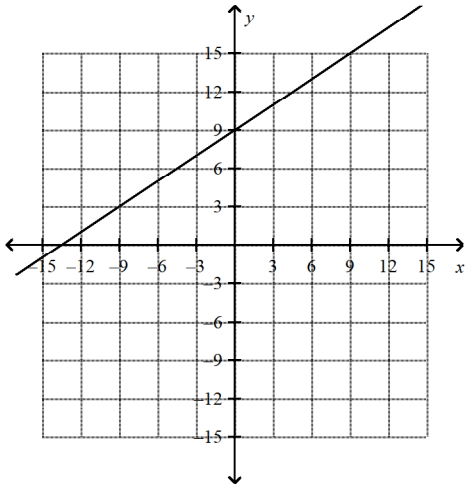
- a. Yes, the data set could represent a linear function.
- b. The data set is constant.
- c. Cannot be determined
- d. No, the data set does not represent a linear function.

Name: \_\_\_\_\_

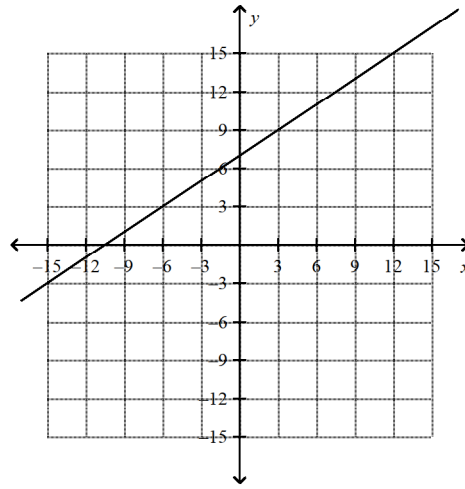
ID: B

6. Graph the line with slope  $\frac{2}{3}$  that passes through  $(-3, 7)$ .

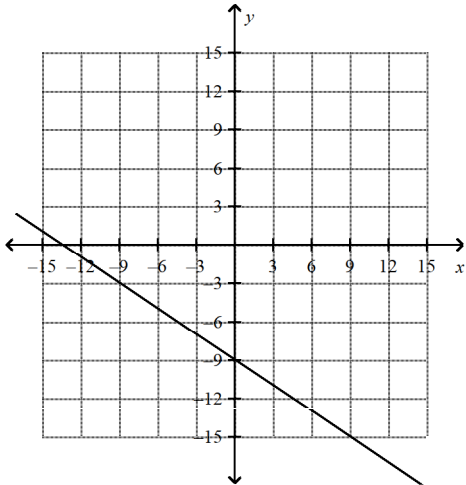
a.



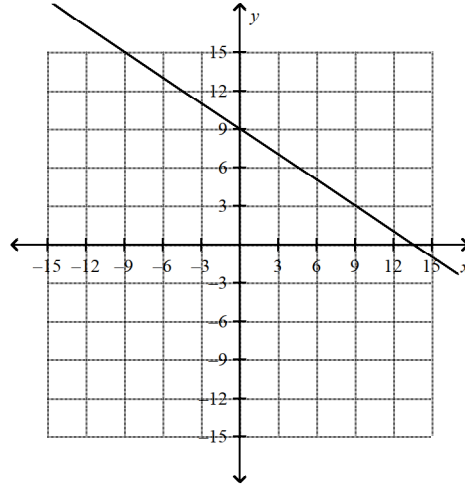
c.



b.

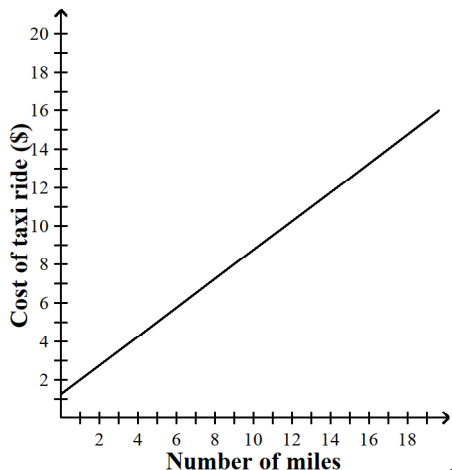


d.



7. After the first three miles, the cost of a taxi ride is a linear function of the trip length. Express the taxi cost as a function of the trip length. Graph the relationship between the taxi cost and the trip length. If a 5-mile ride costs \$5.00 and a 10-mile ride costs \$8.75, how much does a 16-mile ride cost?

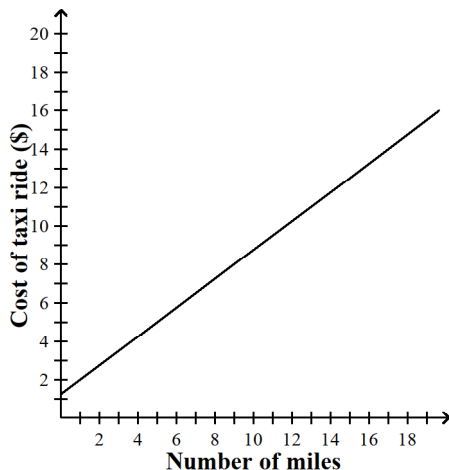
a.  $y = 0.75x + 1.25$



T

he 16-mile ride costs \$13.25.

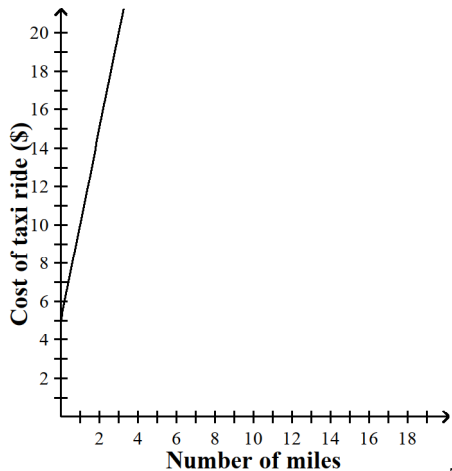
c.  $y = 10x + 8.75$



T

he 16-mile ride costs \$14.00.

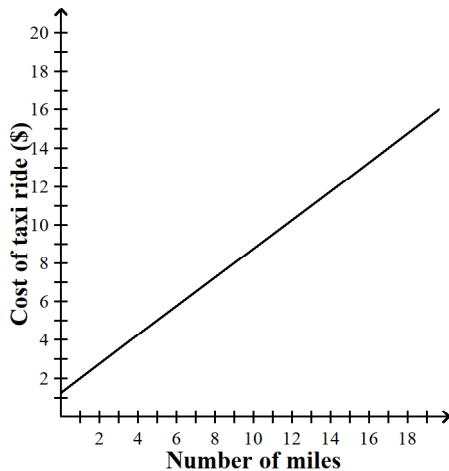
b.  $y = 5x + 5$



T

he 16-mile ride costs \$15.00.

d.  $y = 0.75x + 1.25$

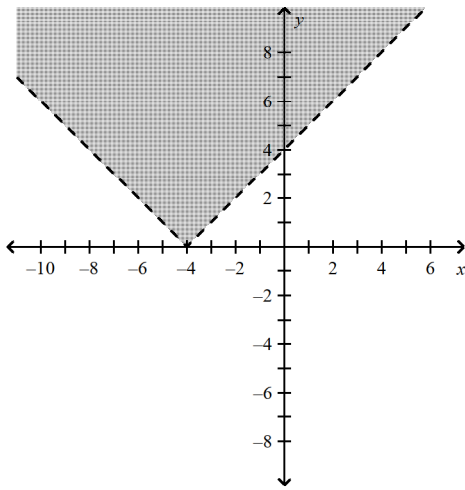


T

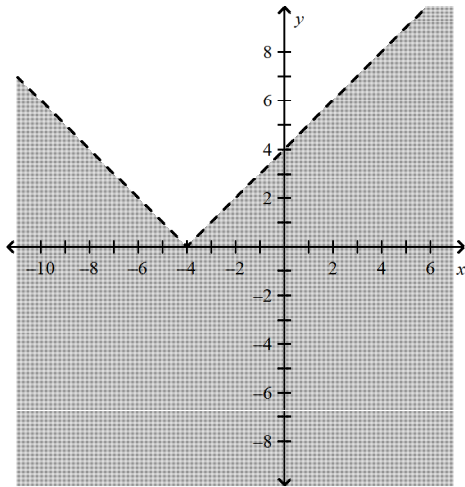
he 16-mile ride costs \$12.50.

8. Graph  $y < |x+4|$ .

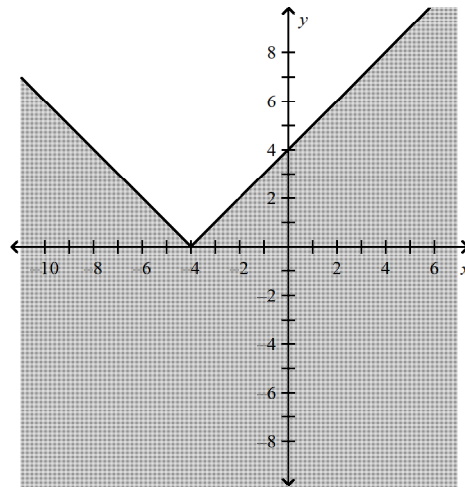
a.



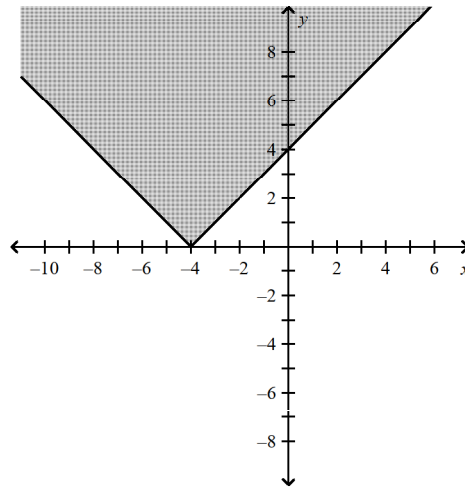
b.



c.



d.



9. Solve  $7t + 16 = 28 + 37t$ .

a.  $t = -\frac{2}{5}$

b.  $t = -\frac{3}{11}$

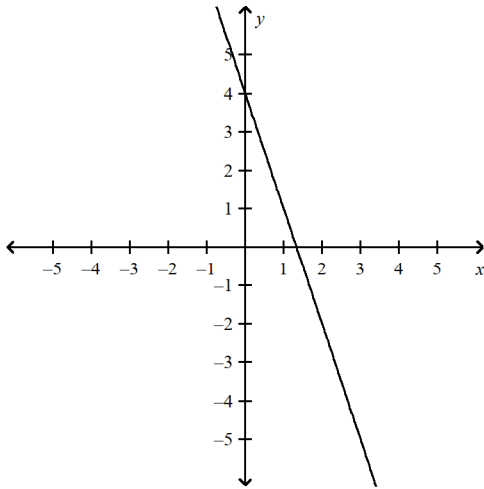
c.  $t = -0$

d.  $t = 1\frac{7}{15}$

Name: \_\_\_\_\_

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\_\_\_\_ 10. Write the equation of the graphed line in slope-intercept form.



a.  $y = -3x + 4$

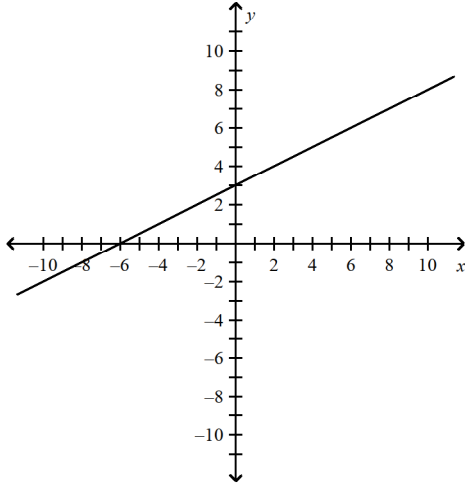
b.  $y = 3x - 4$

c.  $y = 4x - 3$

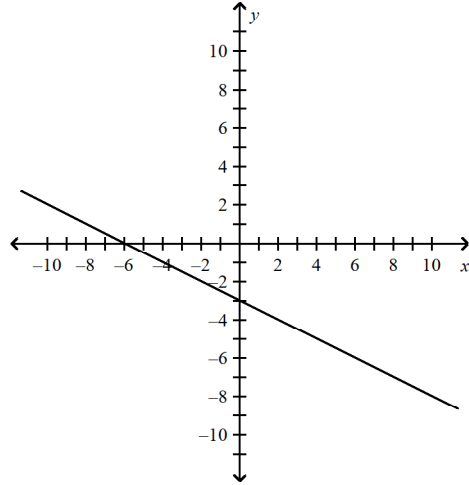
d.  $y = -4x + 3$

11. Write the function  $4x + 8y = 24$  in slope-intercept form. Then graph the function.

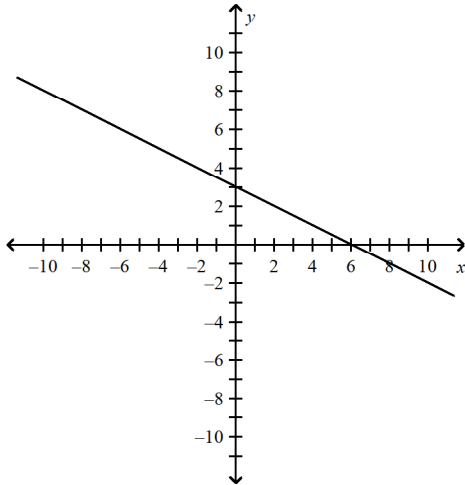
a.  $y = -\frac{1}{2}x + 3$



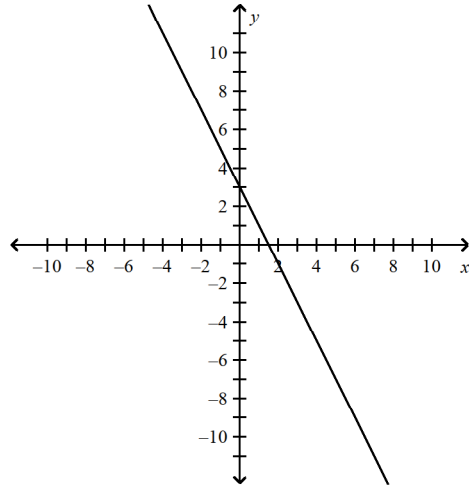
c.  $y = -\frac{1}{2}x + 3$



b.  $y = -\frac{1}{2}x + 3$

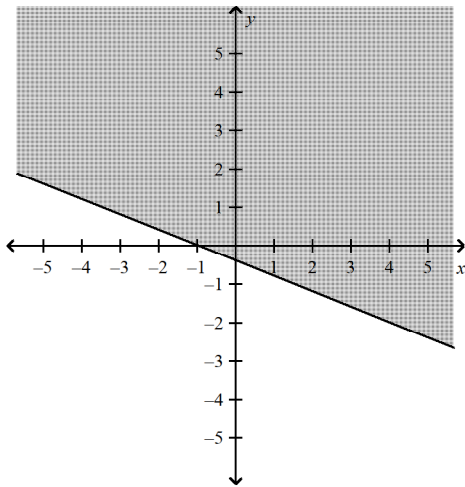


d.  $y = -\frac{1}{2}x + 3$

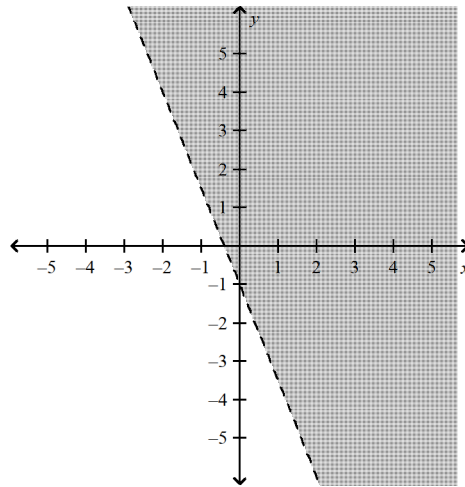


12. Graph  $14x + 35y > -14$  using intercepts.

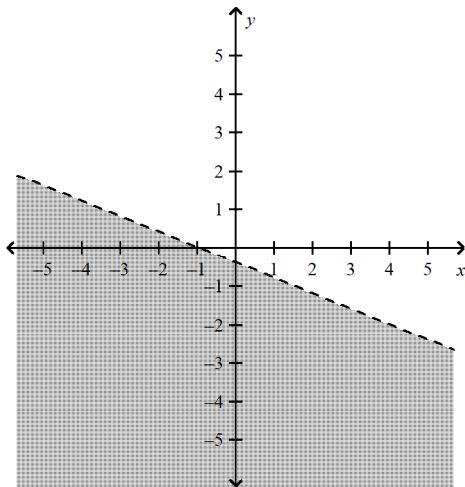
a.



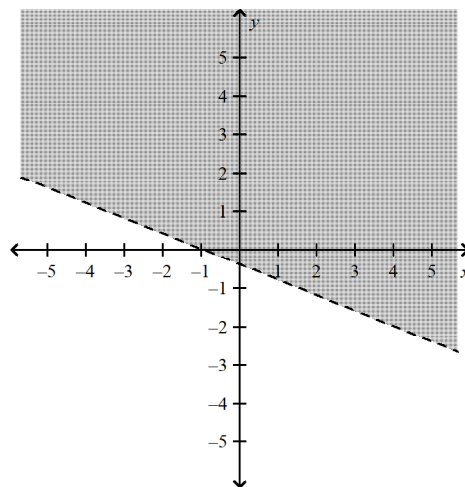
c.



b.



d.



13. Find the slope of the line that passes through the points (1, 3) and (9, 7).

a. 2

c.  $\frac{1}{2}$

b. -2

d. 1



Name: \_\_\_\_\_

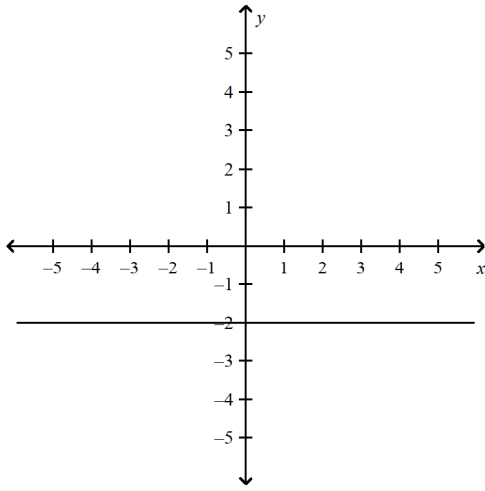
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\_\_\_\_ 14. Determine if  $x = 2$  is vertical or horizontal. Then graph.

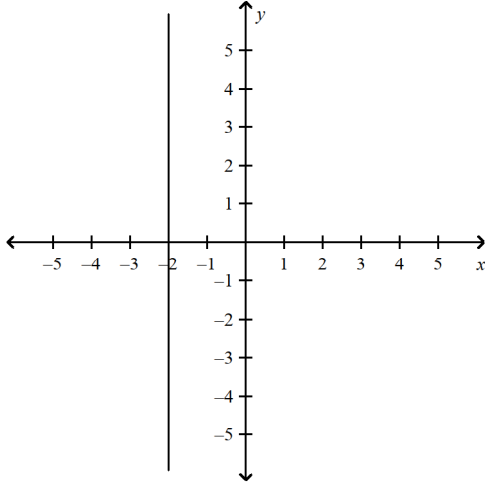
Name: \_\_\_\_\_

ID: B

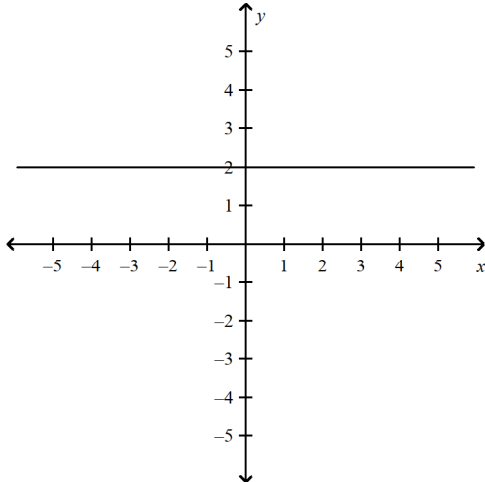
a. The line is horizontal.



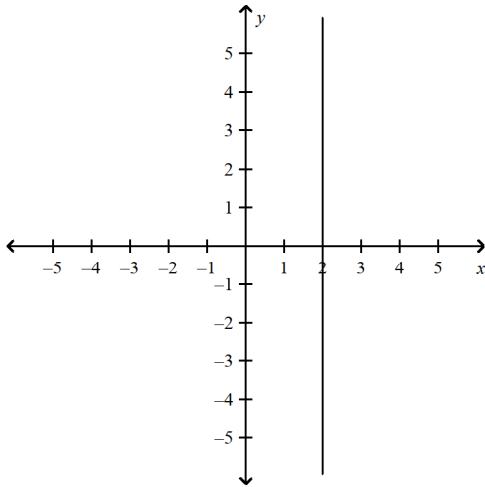
b. The line is vertical.



c. The line is horizontal.

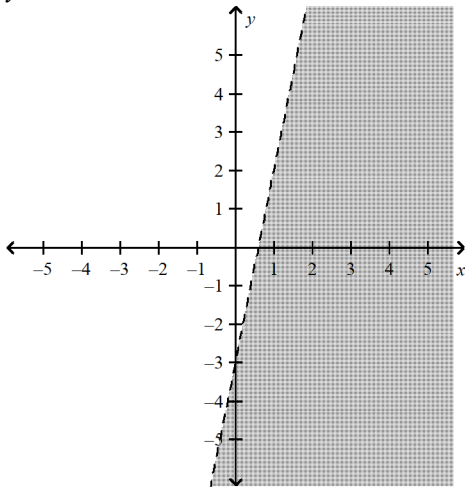


d. The line is vertical.

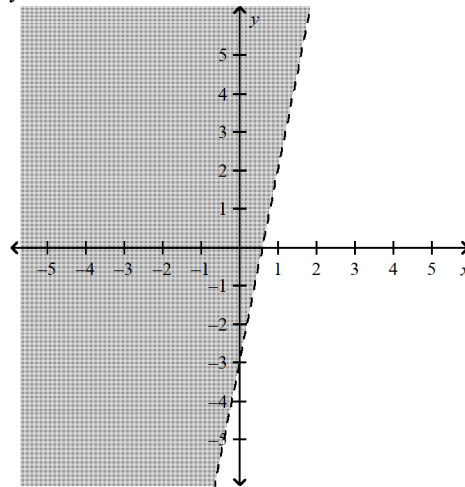


15. Solve  $\frac{2}{3}(5x - y) < 2$  for  $y$ . Graph the solution.

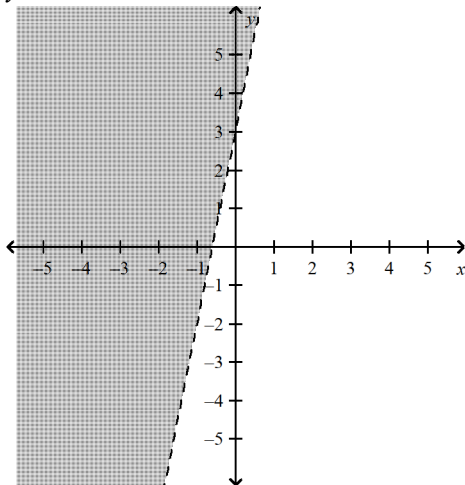
a.  $y < 5x - 3$



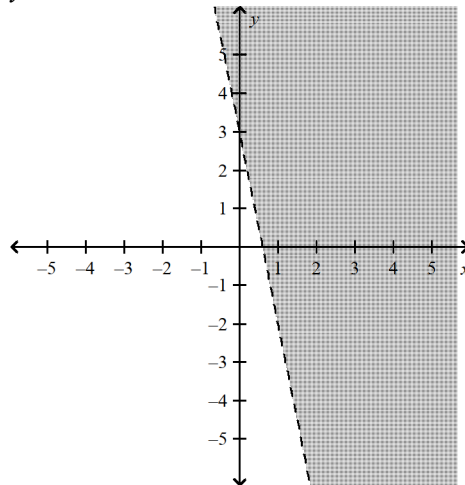
c.  $y > 5x - 3$



b.  $y > 5x + 3$



d.  $y > -5x + 3$



\_\_\_ 16. In slope-intercept form, write the equation of the line that is parallel to  $y = 5x + 7$  and passes through  $(-2, -4)$ .

a.  $y = 5x + 6$

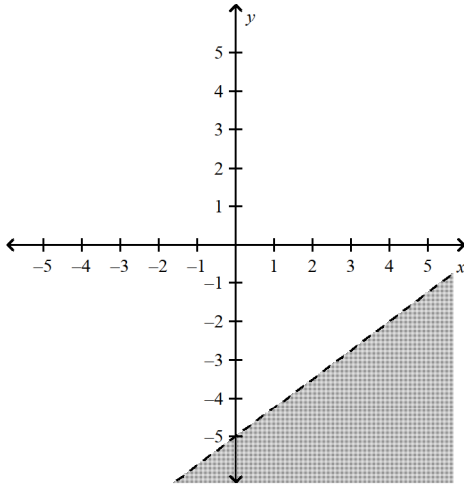
b.  $y = \frac{1}{5}x - 3\frac{3}{5}$

c.  $y = 5x + 9$

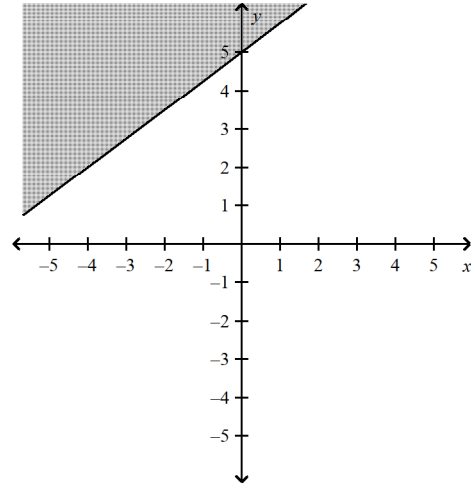
d.  $y = -\frac{1}{5}x - 4\frac{2}{5}$

\_\_\_ 17. Graph the inequality  $y > \frac{3}{4}x - 5$ .

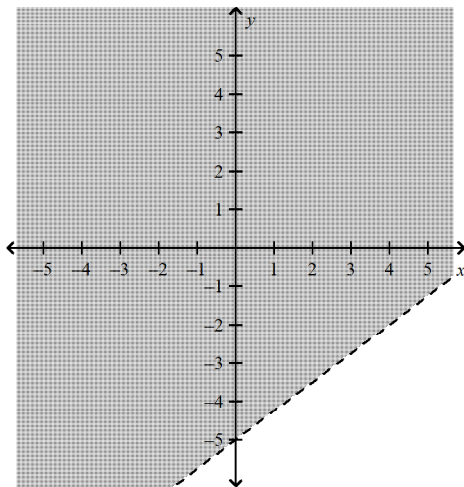
a.



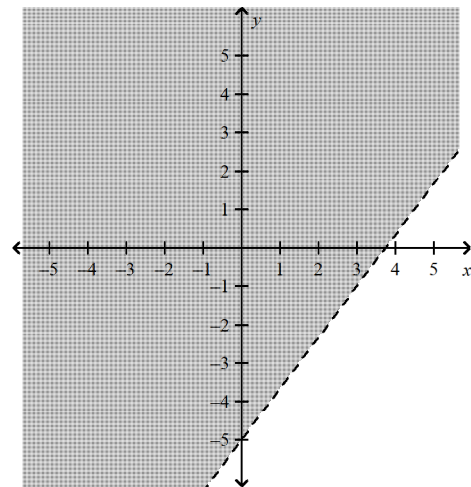
c.



b.

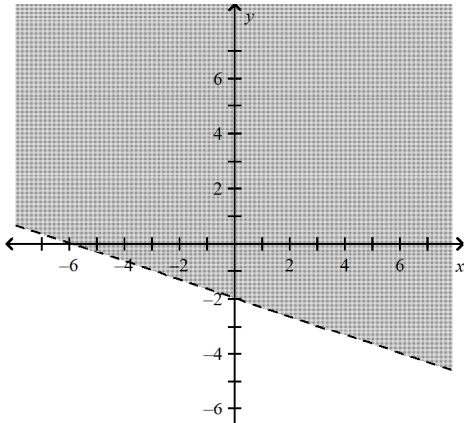


d.

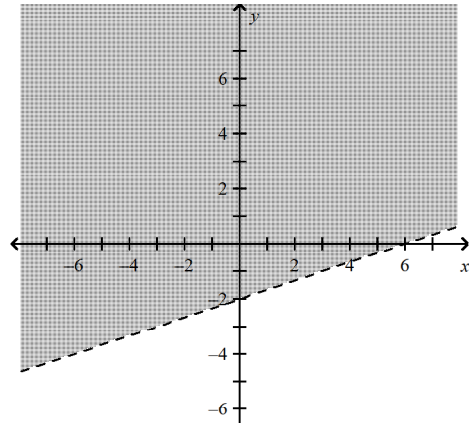


18. Graph the inequality  $5(5x - 4y) < 3(2 + 8x) - 17y$ .

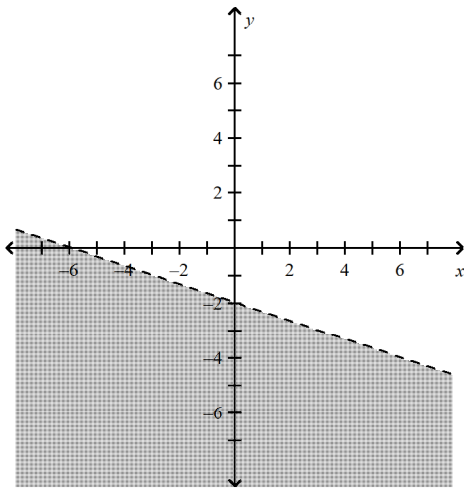
a.



c.



b.



d.

