

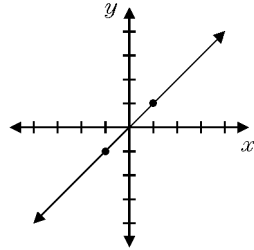
Linear Functions Test

Name: _____

Date: _____

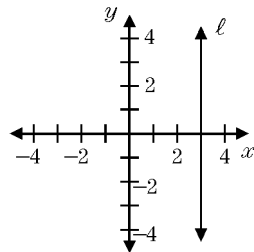
1. What is an equation of the line whose graph is shown?

- A. $y = -x$
- B. $y = 2x$
- C. $y = x$
- D. $y = 2$



2. In the accompanying diagram, which is an equation of line ℓ ?

- A. $y = 3$
- B. $x = 3$
- C. $x + y = 3$
- D. $x - y = 3$

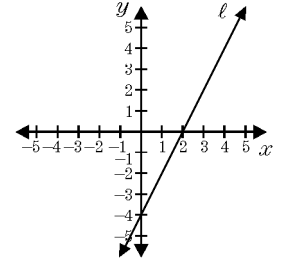


3. Which is the graph of the equation $y = 2$?

- A.
- B.
- C.
- D.

4. Which is an equation for line ℓ in the accompanying diagram?

- A. $y = 2x + 2$
- B. $y = 2x - 4$
- C. $y = -2x - 4$
- D. $y = -2x + 2$

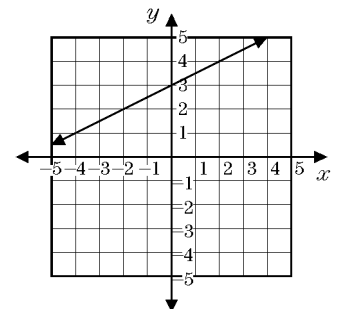


5. Which graph represents the equation $x = -3$?

- A.
- B.
- C.
- D.

6. Which equation represents line ℓ , shown in the accompanying diagram?

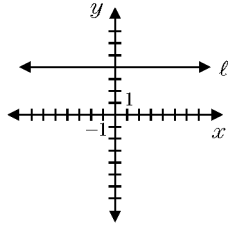
- A. $y = 2x + 3$
- B. $y = \frac{1}{2}x + 3$
- C. $y = 3x + \frac{1}{2}$
- D. $y = 3x + 2$



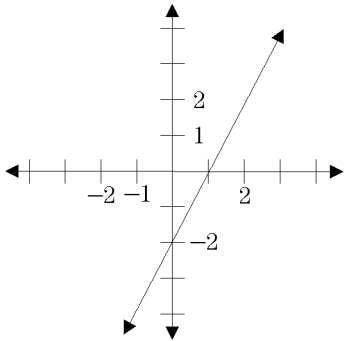
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7. Which equation is represented by this graph of line ℓ ?

- A. $x = y + 4$
- B. $y = x + 4$
- C. $x = 4$
- D. $y = 4$

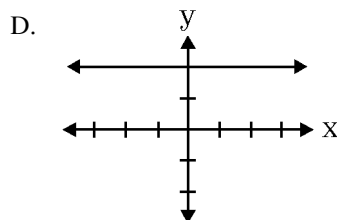
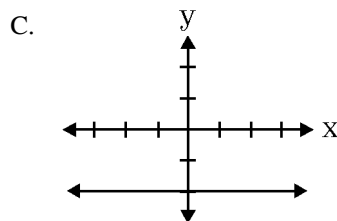
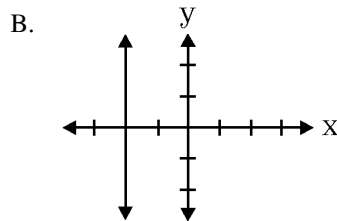
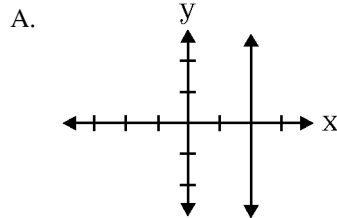


8. What is the equation of the line in the accompanying graph?



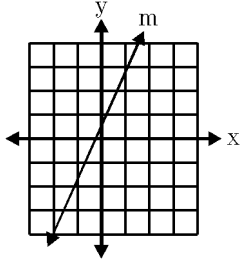
- A. $2y = x - 2$
- B. $y = \frac{1}{2}x + 1$
- C. $y = -2x - 2$
- D. $y = 2x - 2$

9. Which graph represents the graph of the equation $x = 2$?



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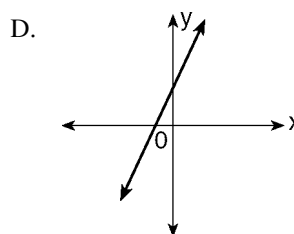
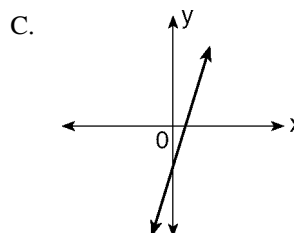
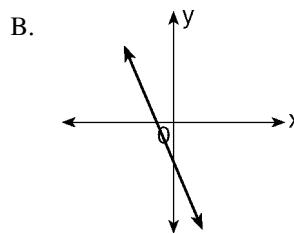
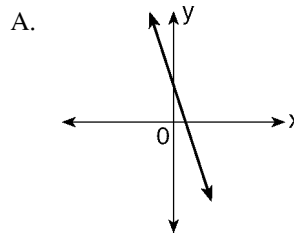
10. The diagram shows the graph of the line m



Which equation represents this line?

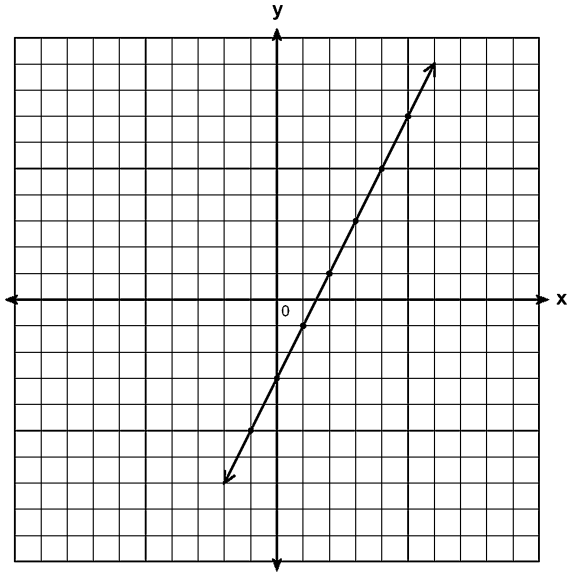
- A. $y = 2x + 1$ B. $y = \frac{1}{2}x + 2$
C. $y = -2x + 1$ D. $y = -\frac{1}{2}x + 2$

11. Which diagram represents the graph of the equation $y = 2x - 1$?

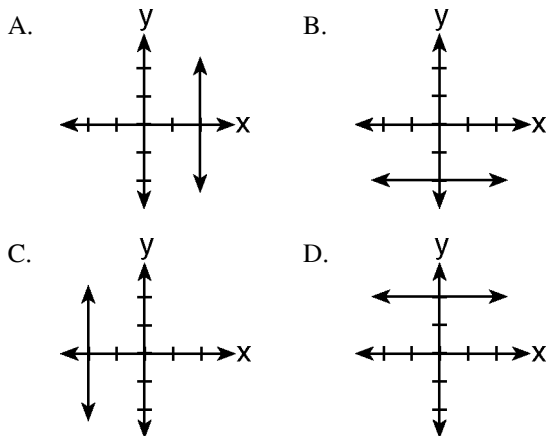


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12. Write the equation for the line shown in the accompanying graph. Explain your answer.



13. Which graph represents the equation $x = 2$?



14. Write an equation of the line that passes through the point $(0, 3)$ and whose slope is 2.

15. Write an equation of the line whose slope is 2 and whose y-intercept is -3 .

16. An equation whose graph has a slope of -2 and a y-intercept of 3 is

- A. $x = -2y + 3$ B. $y = -2x + 3$
 C. $x = 3y - 2$ D. $y = 3x - 2$

17. Which is the equation of a line whose slope is -2 and whose y-intercept is 3?

- A. $y = -2x + 3$ B. $y = 3x - 2$
 C. $y = 3x + 2$ D. $y = 2x - 3$

18. Which equation represents a line whose slope is $\frac{1}{2}$ and whose y-intercept is 3?

- A. $y = \frac{1}{2}x - 3$ B. $y = -\frac{1}{2}x + 3$
 C. $y = 3x + \frac{1}{2}$ D. $y = \frac{1}{2}x + 3$

19. Write an equation of the line whose slope is 2 and whose y-intercept is -3 .

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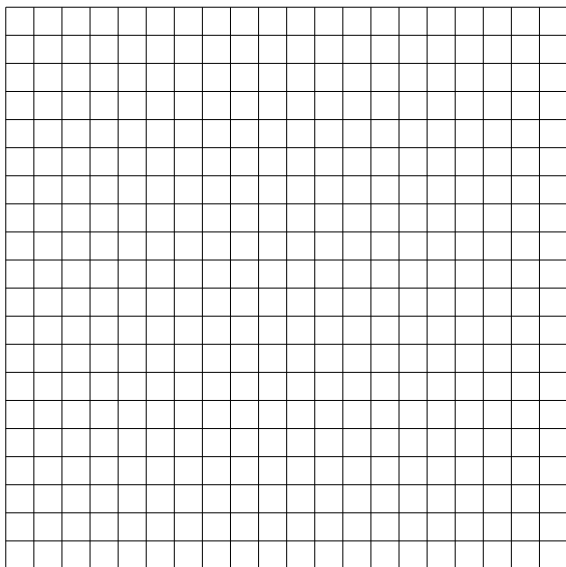
20. Which equation represents the line whose slope is $\frac{1}{2}$ and whose y-intercept is 5?

- A. $y = \frac{1}{2}x + 5$
- B. $y = 5x + \frac{1}{2}$
- C. $y = \frac{1}{2}x - 5$
- D. $y = 5x - \frac{1}{2}$

21. Write an equation of the line whose slope is -2 and whose y-intercept is 1.

- A. $x = 3y - 2$
- B. $y = 3x - 2$
- C. $y = -\frac{2}{3}x$
- D. $y = -2x + 3$

23. On the accompanying grid, draw the graph of the line whose slope is $\frac{2}{3}$ and whose y-intercept is -2 .



24. Which equation represents the line whose slope is 2 and whose y-intercept is 6?

- A. $y = 2x + 6$
- B. $y = 6x + 2$
- C. $2y + 6x = 0$
- D. $y + 2x = 6$

25. Which phrase describes the graph of $y = -1$ on the coordinate plane?

- A. a line parallel to the y-axis and 1 unit to the right of it
- B. a line parallel to the y-axis and 1 unit to the left of it
- C. a line parallel to the x-axis and 1 unit below it
- D. a line parallel to the x-axis and 1 unit above it

26. Which equation is equivalent to $x + 2y = 6$?

- A. $y = -x + 6$
- B. $y = -\frac{1}{2}x - 6$
- C. $y = -x + 3$
- D. $y = -\frac{1}{2}x + 3$

27. The graph of the equation $y = 3$ is a line

- A. parallel to the x-axis
- B. parallel to the y-axis
- C. passing through the origin
- D. passing through the point (3, 0)

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28. A line is represented by the equation $y = 3x - 7$. Which statement about the line is true?
- A. The slope of the line is $\frac{1}{3}$.
 - B. The y -intercept is -7 .
 - C. Point $(1, 4)$ lies on the line.
 - D. This line is parallel to the line whose equation is $y = 2x - 7$.
29. Which statement is true about the graph of the line whose equation is $y = 8$?
- A. The line is parallel to the x -axis.
 - B. The line is parallel to the y -axis.
 - C. The line passes through the origin.
 - D. The line has a slope of 8.
30. The graph of which equation does *not* pass through the origin?
- A. $y = x$
 - B. $y = -x$
 - C. $y = 0$
 - D. $y = 1$
31. Which is an equation of the line that passes through the points $(1, 3)$ and $(-1, 1)$?
- A. $x = 1$
 - B. $y = 2x + 1$
 - C. $y = x + 2$
 - D. $y = 3$
32. Which statement is *false* about the line whose equation is $y = -2x - 5$?
- A. Its slope is -2 .
 - B. It is parallel to the line whose equation is $y = 2x + 5$.
 - C. Its y -intercept is -5 .
 - D. It is perpendicular to the line whose equation is $y = \frac{1}{2}x - 5$.
33. The line $3x - 2y = 12$ has
- A. a slope of $\frac{3}{2}$ and a y -intercept of -6
 - B. a slope of $-\frac{3}{2}$ and a y -intercept of 6
 - C. a slope of 3 and a y -intercept of -2
 - D. a slope of -3 and a y -intercept of -6
34. Which statement describes the graph of $x = 4$?
- A. It passes through the point $(0, 4)$.
 - B. It has a slope of 4.
 - C. It is parallel to the y -axis.
 - D. It is parallel to the x -axis.

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| <p>1.
Answer: C</p> <p>2.
Answer: B</p> <p>3.
Answer: B</p> <p>4.
Answer: B</p> <p>5.
Answer: B</p> <p>6.
Answer: B</p> <p>7.
Answer: D</p> <p>8.
Answer: D</p> <p>9.
Answer: A</p> <p>10.
Answer: A</p> <p>11.
Answer: C</p> <p>12.
Answer: $y = 2x - 3$</p> <p>13.
Answer: A</p> <p>14.
Answer: $y = 2x + 3$</p> <p>15.
Answer: $y = 2x - 3$</p> <p>16.
Answer: B</p> <p>17.
Answer: A</p> <p>18.
Answer: D</p> <p>19.
Answer: $y = 2x - 3$</p> | <p>20.
Answer: A</p> <p>21.
Answer: $y = -2x + 1$</p> <p>22.
Answer: B</p> <p>23.
Answer: graph is drawn that passes through the points $(0, -2)$ and $(3, 0)$</p> <p>24.
Answer: A</p> <p>25.
Answer: C</p> <p>26.
Answer: D</p> <p>27.
Answer: A</p> <p>28.
Answer: B</p> <p>29.
Answer: A</p> <p>30.
Answer: D</p> <p>31.
Answer: C</p> <p>32.
Answer: B</p> <p>33.
Answer: A</p> <p>34.
Answer: C</p> |
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