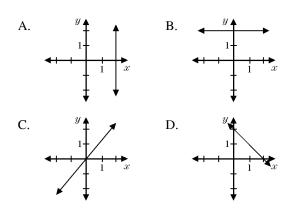
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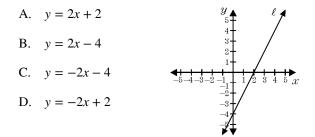
- 1. What is an equation of the line whose graph is shown?
  - A. y = -xB. y = 2xC. y = xD. y = 2
- 2. In the accompanying diagram, which is an equation of line  $\ell$ ?

A. y = 3

- B. x = 3C. x + y = 3D. x - y = 3 -4 -2 -2 -2 -4 -2 -2 -4 -2 -2 -2 -4 -2
- 3. Which is the graph of the equation y = 2?

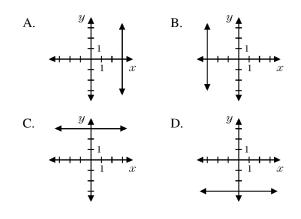


4. Which is an equation for line  $\ell$  in the accompanying diagram?

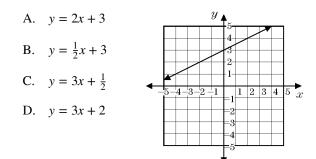


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5. Which graph represents the equation x = -3?

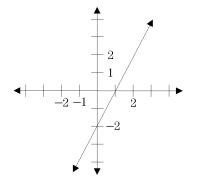


6. Which equation represents line  $\ell$ , shown in the accompanying diagram?

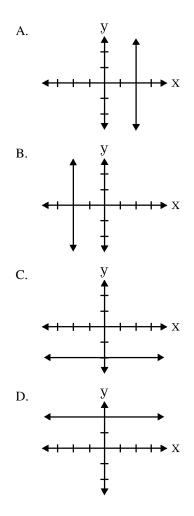


- 7. Which equation is represented by this graph of line  $\ell$ ?
  - A. x = y + 4B. y = x + 4C. x = 4D. y = 4

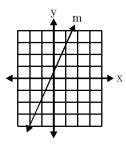
8. What is the equation of the line in the accompanying graph?



A. 2y = x - 2B.  $y = \frac{1}{2}x + 1$ C. y = -2x - 2D. y = 2x - 2 9. Which graph represents the graph of the equation x = 2?



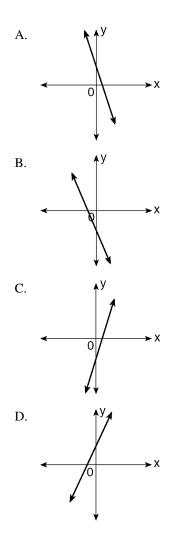
10. The diagram shows the graph of the line m



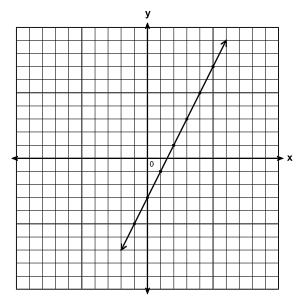
Which equation represents this line?

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

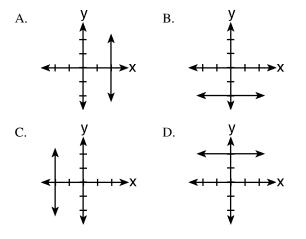
11. Which diagram represents the graph of the equation y = 2x - 1?



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



13. Which graph represents the equation x = 2?



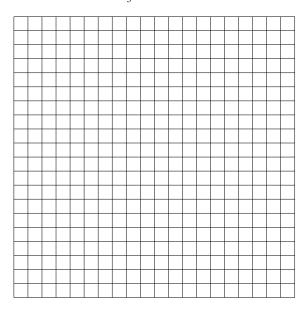
14. Write an equation of the line that passes through the point (0, 3) and whose slope is 2.

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

- 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.
- 22. An equation of the line that has a slope of 3 and a y-intercept of -2 is
  - A. x = 3y 2B. y = 3x - 2C.  $y = -\frac{2}{3}x$ 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)

- 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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		Linear Functions Test	01/20/2013	
1. Answer:	С		20. Answer:	А
2. Answer:	В		21. Answer:	y = -2x + 1
3. Answer:	В		22. Answer:	В
4. Answer:	В		23. Answer:	graph is drawn that passes through the
5. Answer:	В		24.	points $(0, -2)$ and $(3, 0)$
6. Answer:	В		Answer: 25.	Α
7. Answer:	D		Answer: 26.	С
8. Answer:	D		Answer: 27.	D
9. Answer:	А		Answer: 28.	A
10. Answer:	А		Answer: 29.	В
11. Answer:	С		Answer: 30.	A
12. Answer:	y = 2x - 3		Answer: 31.	D
13.	A		Answer:	С
Answer: 14.			32. Answer:	В
Answer: 15.	y = 2x + 3		33. Answer:	А
Answer: 16.	y = 2x - 3		34. Answer:	С
Answer: 17.	В			
Answer: 18.	А			
Answer: 19.	D			
Answer:	y = 2x - 3			