## Linear Functions Test

Name: $\qquad$ Date: $\qquad$

1. What is an equation of the line whose graph is shown?
A. $y=-x$
B. $y=2 x$
C. $y=x$
D. $y=2$

2. In the accompanying diagram, which is an equation of line $\ell$ ?
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 $\ell$ in the accompanying diagram?
A. $y=2 x+2$
B. $y=2 x-4$
C. $y=-2 x-4$
D. $y=-2 x+2$

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

B.

C.

D.

6. Which equation represents line $\ell$, shown in the accompanying diagram?
A. $y=2 x+3$
B. $y=\frac{1}{2} x+3$
C. $y=3 x+\frac{1}{2}$
D. $y=3 x+2$


## Linear Functions Test

7. Which equation is represented by this graph of line $\ell$ ?
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. $2 y=x-2$
B. $y=\frac{1}{2} x+1$
C. $y=-2 x-2$
D. $y=2 x-2$
9. Which graph represents the graph of the equation $x=2$ ?
A.

B.

C.

D.


## Linear Functions Test

10. The diagram shows the graph of the line $m$


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

B.

C.

D.


## Linear Functions Test

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

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

B.

C.

D.

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. $x=-2 y+3$
B. $y=-2 x+3$
C. $x=3 y-2$
D. $y=3 x-2$
17. Which is the equation of a line whose slope is -2 and whose $y$-intercept is 3 ?
A. $y=-2 x+3$
B. $y=3 x-2$
C. $y=3 x+2$
D. $y=2 x-3$
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. $y=3 x+\frac{1}{2}$
D. $y=\frac{1}{2} x+3$
19. Write an equation of the line whose slope is 2 and whose $y$-intercept is -3 .

## Linear Functions Test

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. $y=5 x+\frac{1}{2}$
C. $y=\frac{1}{2} x-5$
D. $y=5 x-\frac{1}{2}$
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. $x=3 y-2$
B. $y=3 x-2$
C. $y=-\frac{2}{3} x$
D. $y=-2 x+3$
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. $y=2 x+6$
B. $y=6 x+2$
C. $2 y+6 x=0$
D. $y+2 x=6$
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 $x+2 y=6$ ?
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 $(3,0)$

## Linear Functions Test

28. A line is represented by the equation $y=3 x-7$. 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 $y=2 x-7$.
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. $y=2 x+1$
C. $y=x+2$
D. $y=3$
32. Which statement is false about the line whose equation is $y=-2 x-5$ ?
A. Its slope is -2 .
B. It is parallel to the line whose equation is $y=2 x+5$.
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 $3 x-2 y=12$ 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.

