Name: _____   **Date:** _____

1. The graph of the line passing through the points $(6, 7)$ and $(4, 2)$ has a slope of

   A. $\frac{2}{5}$ B. $-\frac{5}{2}$ C. $\frac{5}{2}$ D. $-\frac{1}{2}$

2. The slope of the line determined by the points $(-3, 2)$ and $(2, -3)$ is

   A. 1   B. -1

   C. zero   D. undefined

3. What is the slope of the line that passes through the points $(1, 3)$ and $(3, 7)$?

4. What is the slope of the line containing points $A(4, -1)$ and $B(0, 2)$?

   A. $\frac{3}{4}$ B. $\frac{4}{3}$ C. $-\frac{3}{4}$ D. $-\frac{4}{3}$

5. What is the slope of the line determined by the points $(5, -3)$ and $(-9, -6)$?

   A. $\frac{3}{14}$ B. $-\frac{3}{14}$ C. $\frac{14}{3}$ D. $-\frac{19}{4}$

6. What is the slope of a line that passes through points $(-4, 2)$ and $(6, 8)$?

   A. $-\frac{3}{5}$ B. $\frac{3}{5}$ C. $\frac{5}{3}$ D. $-\frac{5}{3}$

7. What is the slope of the line that passes through the points $(-2, 4)$ and $(8, -1)$?

   A. $-\frac{1}{2}$ B. $\frac{1}{2}$ C. $\frac{2}{1}$ D. $-\frac{2}{1}$

8. What is the slope of the line containing points $(4, -2)$ and $(5, 3)$?

   A. $\frac{1}{9}$ B. 9   C. $\frac{1}{5}$ D. 5

9. What is the slope of the line determined by points $(5, 2)$ and $(0, -1)$?

   A. $-\frac{5}{3}$ B. $\frac{5}{3}$ C. $-\frac{3}{5}$ D. $\frac{3}{5}$

10. What is the slope of the line segment that passes through points $(1, 3)$ and $(5, 13)$?

    A. $\frac{1}{6}$ B. $\frac{2}{5}$ C. $\frac{5}{2}$ D. 6

11. What is the slope of the line that passes through the points $(-6, 1)$ and $(4, -4)$?

    A. -2 B. 2   C. $-\frac{1}{2}$ D. $\frac{1}{2}$

12. What is the slope of the line that passes through the points $(2, 5)$ and $(7, 3)$?

    A. $-\frac{5}{2}$ B. $-\frac{2}{5}$ C. $\frac{8}{9}$ D. $\frac{9}{8}$

13. What is the slope of the line that passes through the points $(-5, 4)$ and $(15, -4)$?

    A. $-\frac{2}{5}$ B. 0

    C. $-\frac{5}{2}$ D. undefined

14. What is the slope of the line that passes through the points $(3, 5)$ and $(-2, 2)$?

    A. $\frac{1}{5}$ B. $\frac{3}{5}$ C. $\frac{5}{3}$ D. 5

15. What is the slope of the line whose equation is $y = 2x - 10$?

    A. $\frac{1}{2}$ B. 2   C. 5   D. -10

16. What is the slope of the line whose equation is $y = -3x + 6$?

    A. $-\frac{1}{2}$ B. 2   C. -3 D. 6

17. What is the slope of the line whose equation is $5y = 2x + 10$?

    A. $\frac{5}{2}$ B. 2   C. $\frac{2}{5}$ D. 5

18. What is the slope of the line whose equation is $y - 2x = 4$

    A. -2 B. 2   C. -4 D. 4

19. What is the slope of the line whose equation is $y + 2x = 4$?

    A. $\frac{1}{2}$ B. 2   C. -2 D. 4

20. What is the slope of the line whose equation is $y = -x + 2$?

21. What is the slope of the graph of the equation $y = 2x - \frac{3}{2}$?

22. What is the slope of the line whose equation is $y = \frac{3}{4}x + 4$?

23. What is the slope of the line whose equation is $y = 3x - 5$?

24. What is the slope of the line whose equation is $y - 3x = 1$?

    A. 1   B. -3 C. 3   D. $\frac{1}{3}$

25. Which is an equation of a line whose slope is 0?

    A. $3x = y$ B. $x + y = 3$

    C. $y = 3$ D. $x = 3$

26. Which is an equation of a line whose slope is equal to zero?

    A. $y = 1$ B. $x = 2$

    C. $x + y = 5$ D. $x - y = 3$

27. The graph of which equation has a *negative* slope?

    A. $y = 5x - 3$ B. $x + y = 5$

    C. $y - 2 = 4x$ D. $y = 0$

28. What is the slope of the line $y + 6x = 3$?

    A. -6 B. -3 C. 3 D. 6

29. In the diagram below, what is the slope of the line passing through points *A* and *B*?
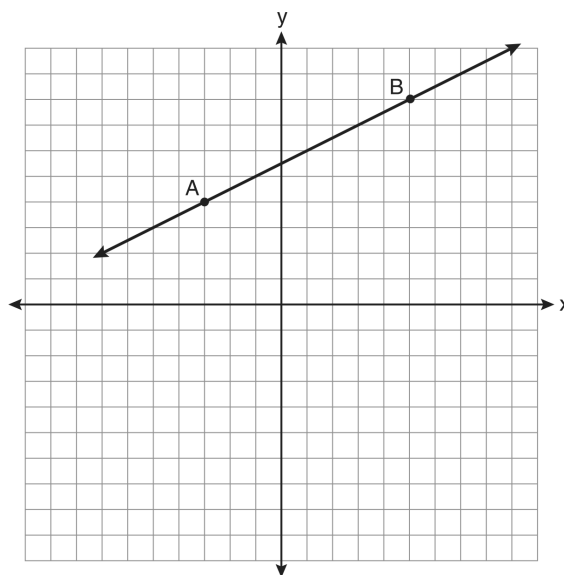
    A. -2 B. 2 C. $-\frac{1}{2}$ D. $\frac{1}{2}$

30. What is the slope of the line passing through the points *A* and *B*, as shown on the graph below?
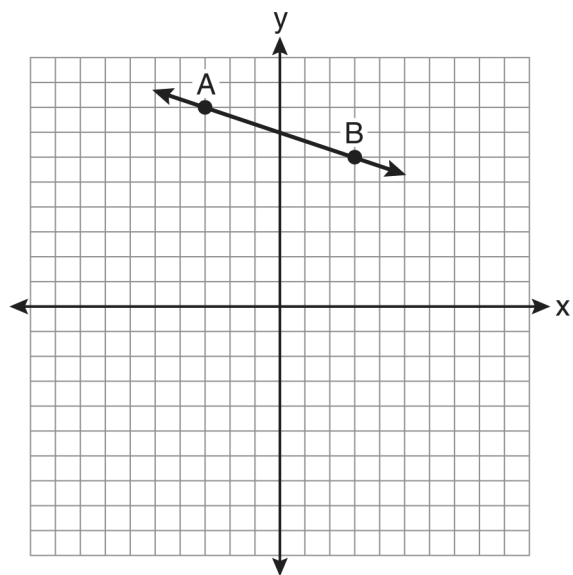
A. −3   B. −$\frac{1}{3}$ C. 3   D. $\frac{1}{3}$

31. Which of these lines has a slope of −3?

A.

B.

C.

D.
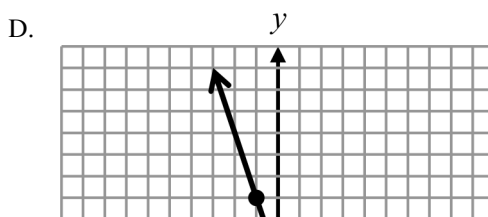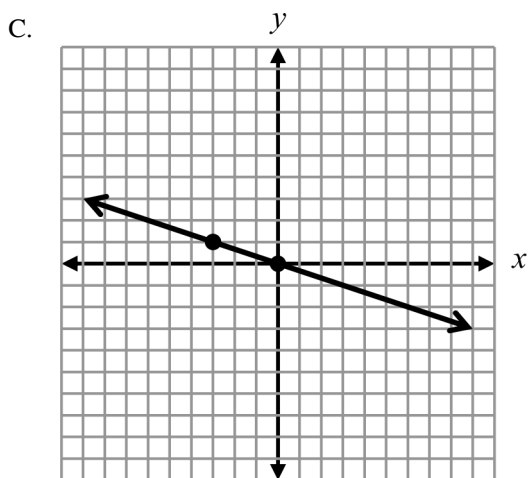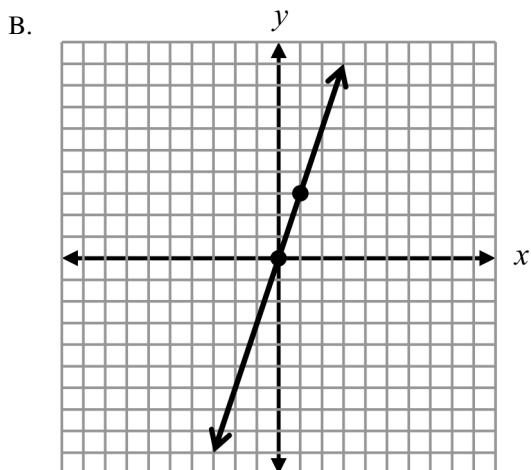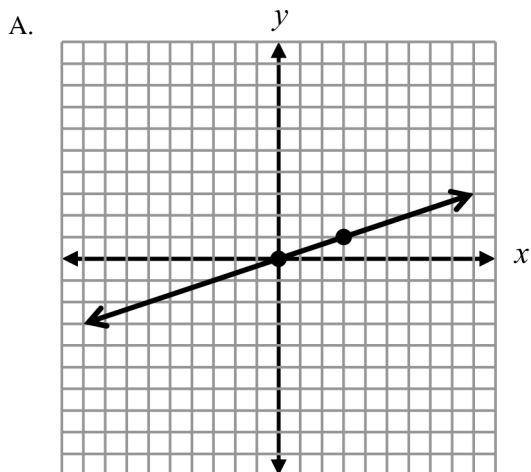
32. Which statement is true?

    A. All vertical lines have a slope of zero.

    B. All vertical lines have a positive slope.

    C. All vertical lines have a negative slope.

    D. All vertical lines have an undefined slope.

33. What are the *y*-intercept and the slope of the graph below?
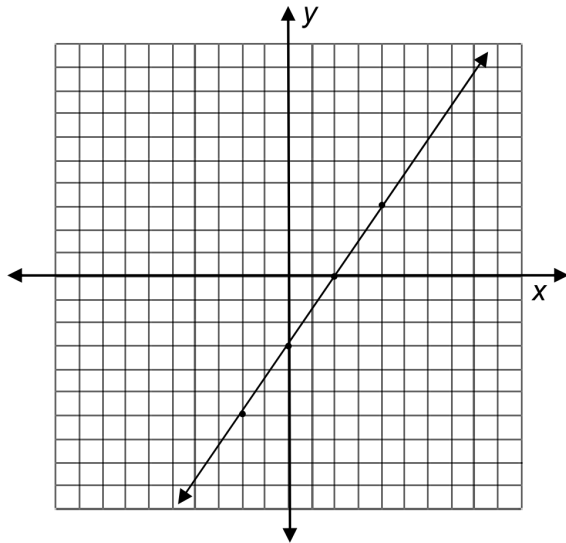
    A. *y*-intercept: 3
       slope: $\frac{2}{3}$

    B. *y*-intercept: 3
       slope: $-\frac{3}{2}$

    C. *y*-intercept: -3
       slope: $\frac{3}{2}$

    D. *y*-intercept: -3
       slope: $-\frac{2}{3}$

34. Which of the following graphs shows a constant rate of change?

    A.

    B.

    C.

    D.
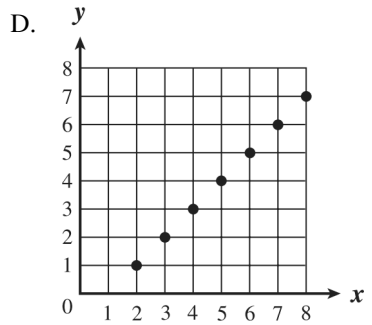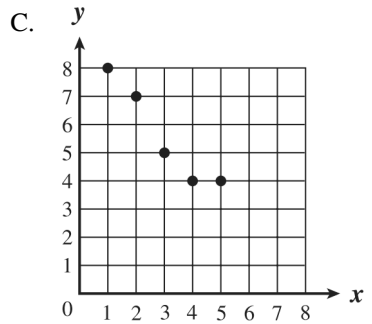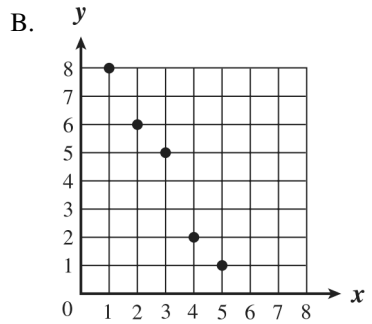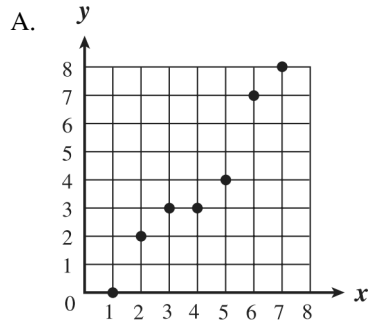
35. The graph below shows a relationship between values of *x* and *y*.
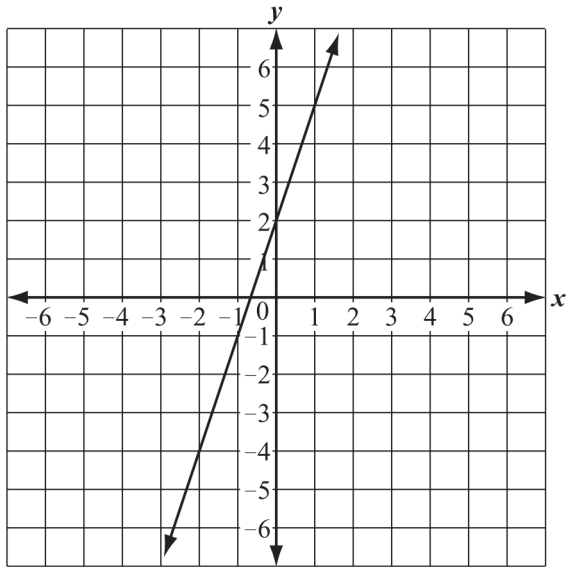
As the value of *x* increases from 0 to 1, what is the change in the value of *y*?

A. The value of *y* increases by 3.

B. The value of *y* decreases by 3.

C. The value of *y* increases by fraction: one third $\frac{1}{3}$.

D. The value of *y* decreases by fraction: one third $\frac{1}{3}$.

36. Which of the following graphs best represents a line with a positive rate of change?

A.

B.

C.

D.
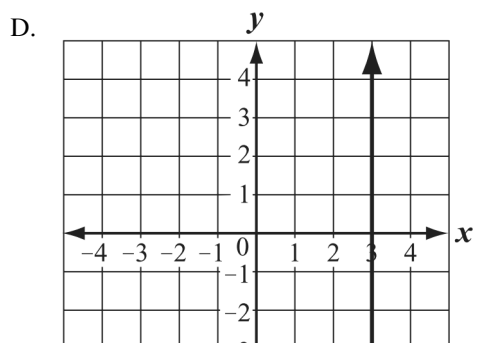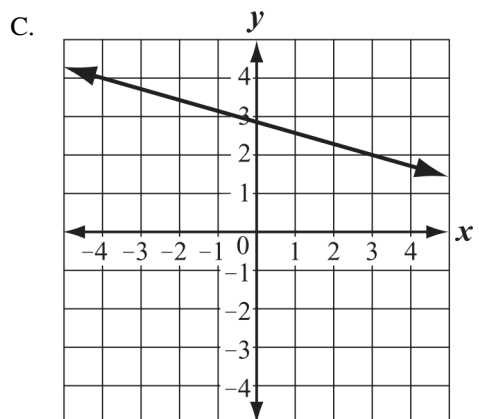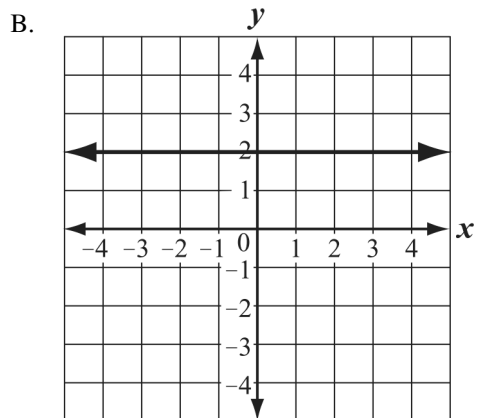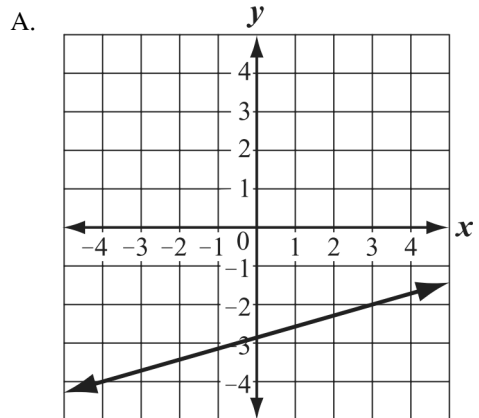
37. The graph below shows a linear relationship between x and y.
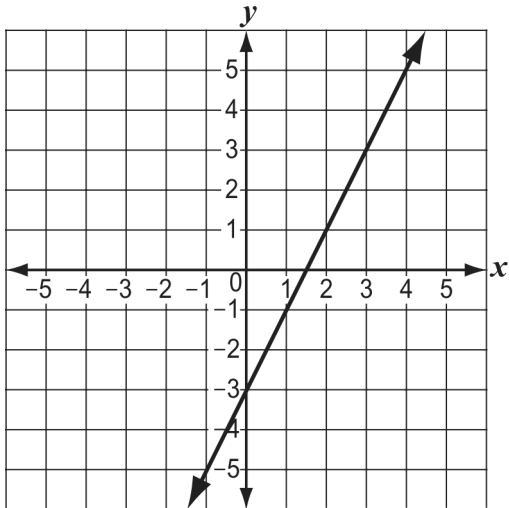
Which of the following statements describes the relationship between x and y?

A. As x increases by 1, y increases by 2.

B. As x increases by 1, y decreases by 2.

C. As x increases by 2, y increases by 1.

D. As x increases by 2, y decreases by 1.

38. On which of the following graphs does the line have a positive rate of change?

A.

B.

C.

D.
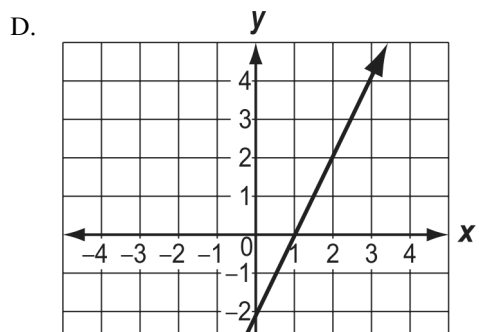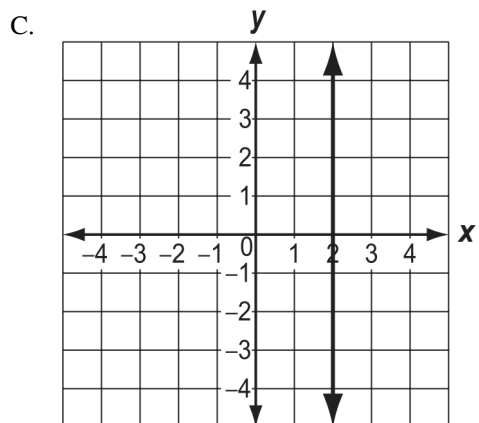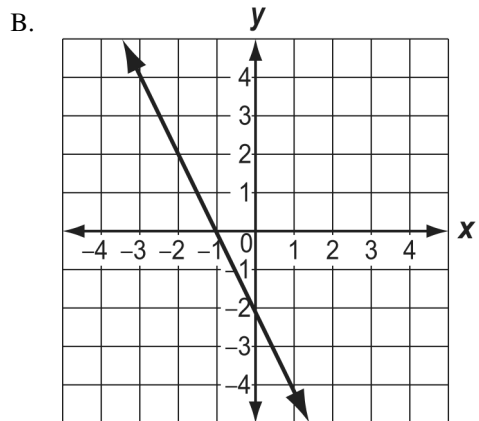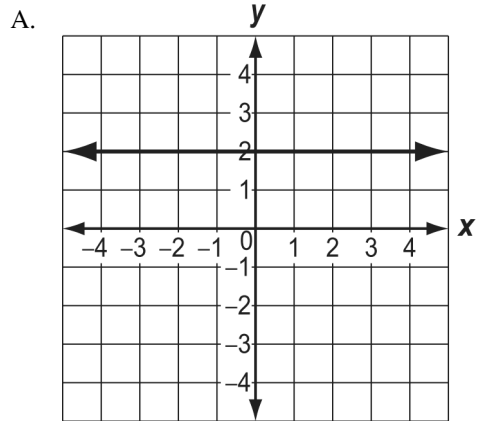
39. Which graph contains the points given in the table below?

x	y
-2	3
-1	1
1	-3

A.
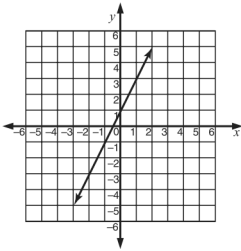
B.
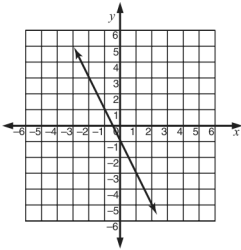
C.
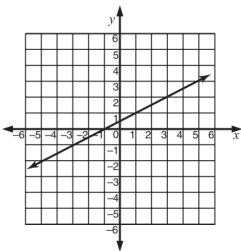
D.
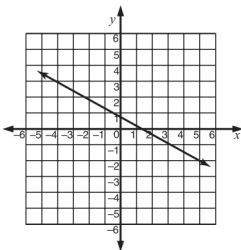
40. Use the graph below to answer the following question(s).
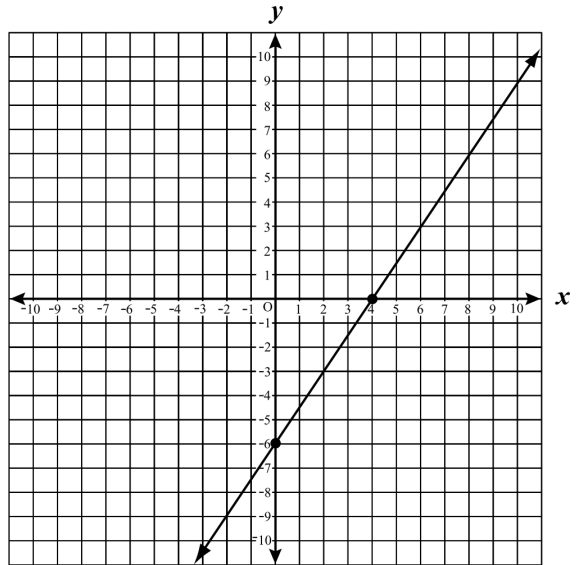
Which statement *best* describes the slope of the line graphed above?

A. The slope is -6.   B. The slope is $-\frac{2}{3}$.

C. The slope is $\frac{3}{2}$.   D. The slope is 4.

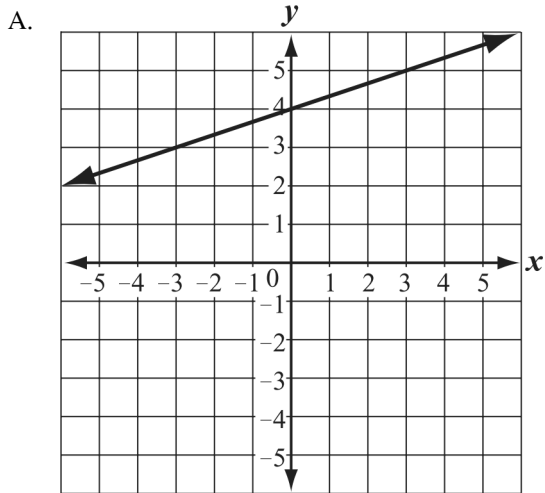41. Which of the following shows the graph of a line with positive slope?

A.

B.

C.

D.
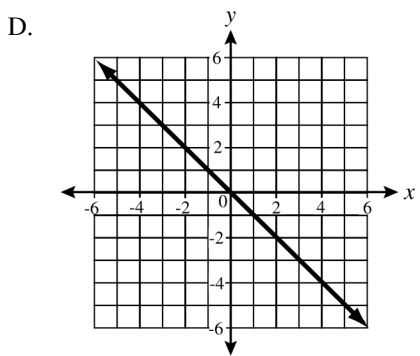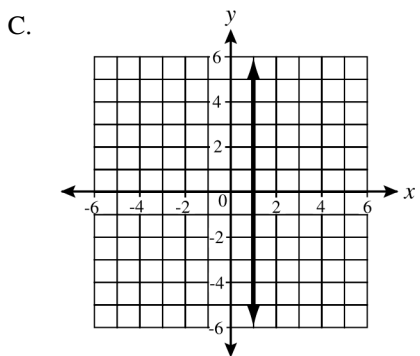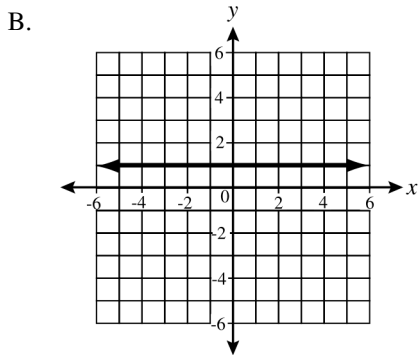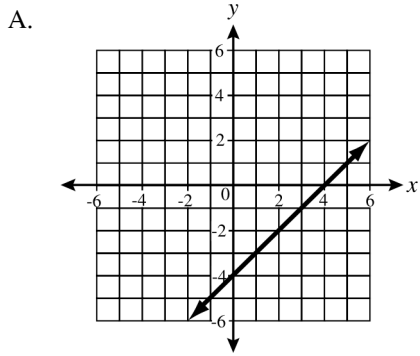
42. Which of the lines graphed below has the greatest positive slope?
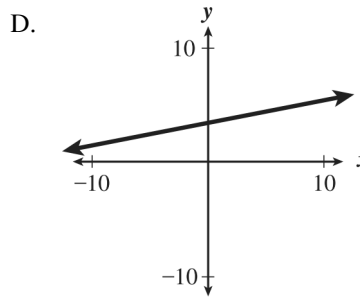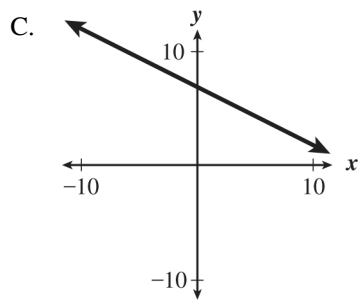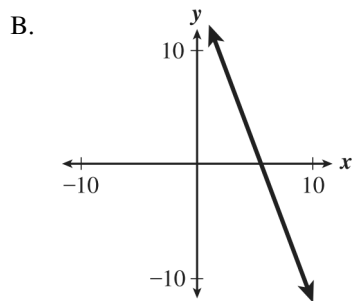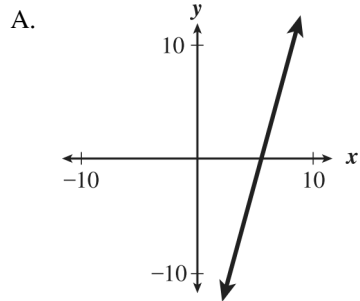
A.

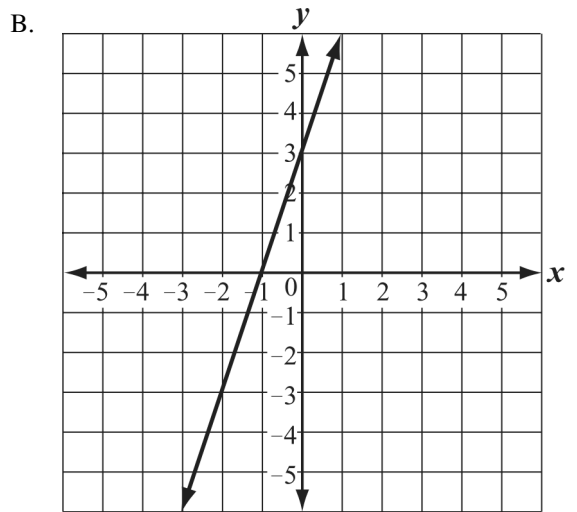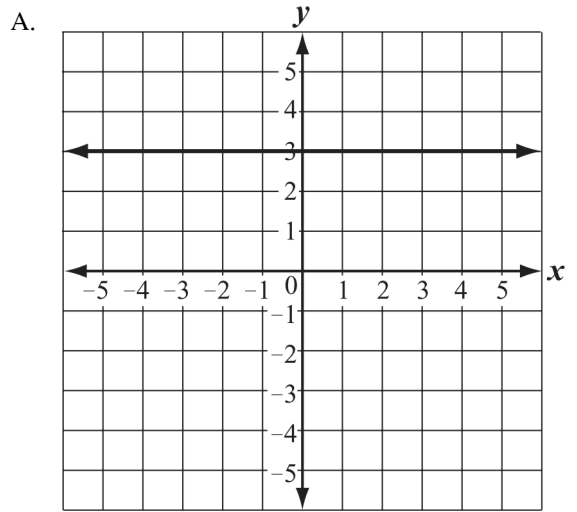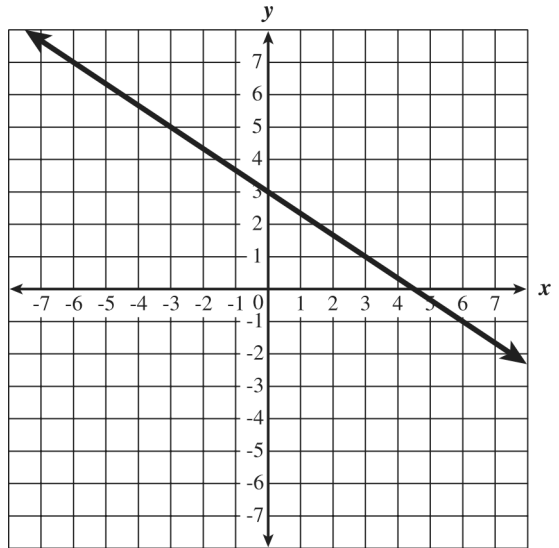B.

C.

D.
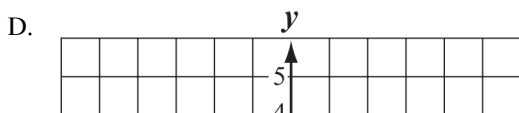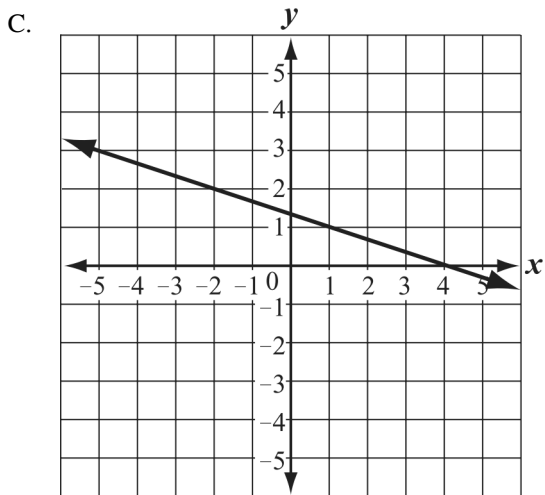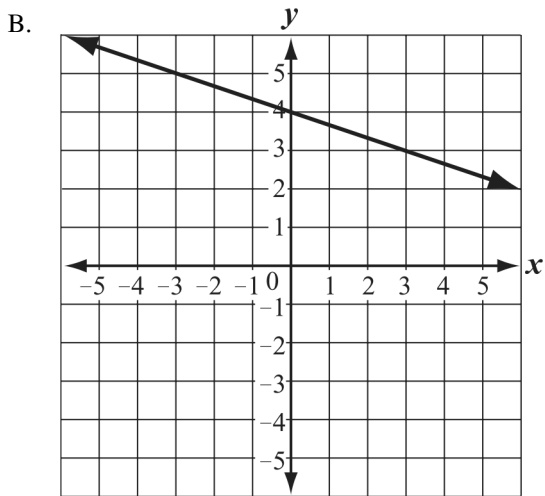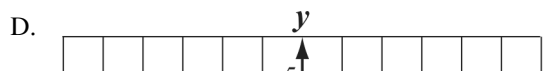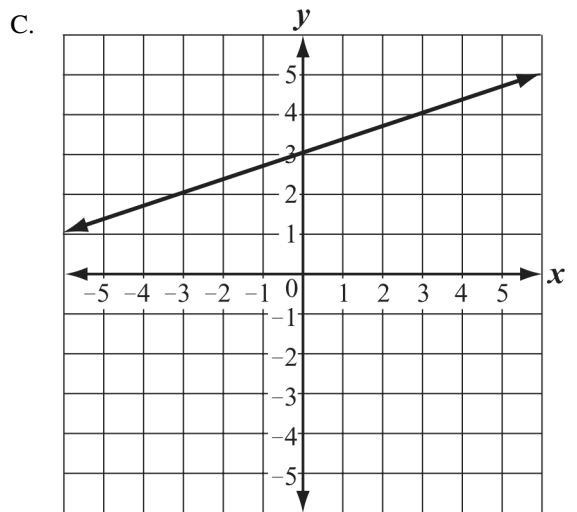
45. Which graph has the line with the greatest slope?

A.

B.

C.

D.
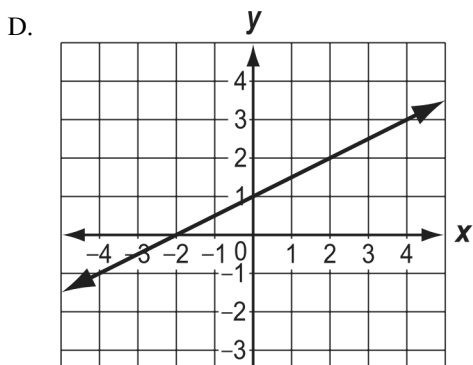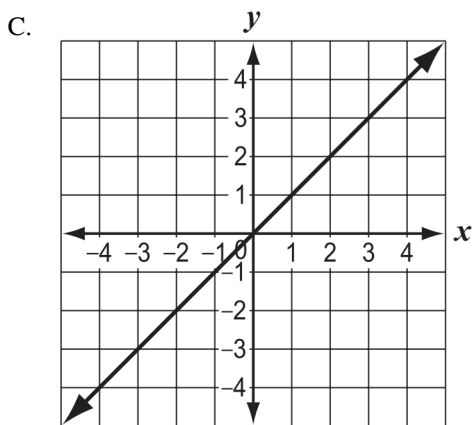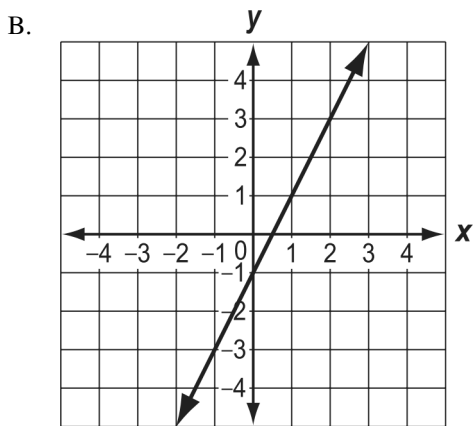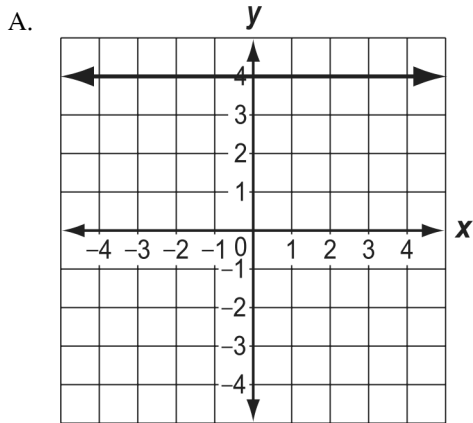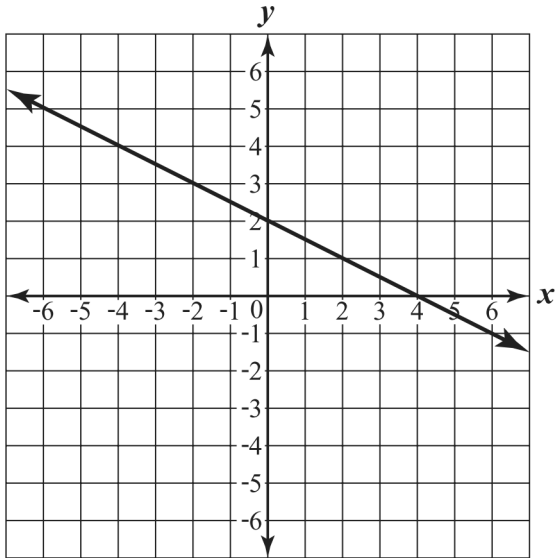

46. Which of the following is the apparent slope of the line graphed below?

A. $-\frac{3}{2}$　　B. $-\frac{2}{3}$　　C. $\frac{2}{3}$　　D. $\frac{3}{2}$
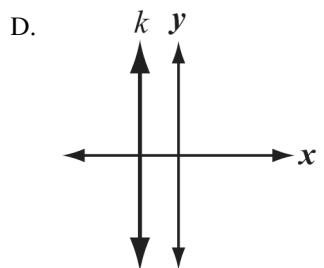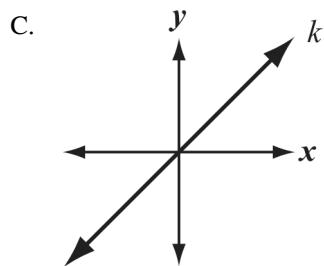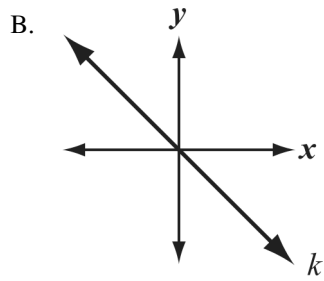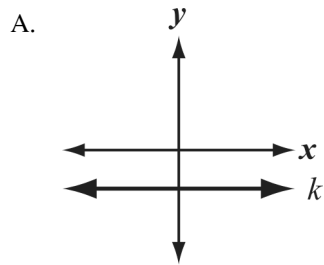
47. Which of the following best represents the slope and *y*-intercept of the line on the coordinate grid below?
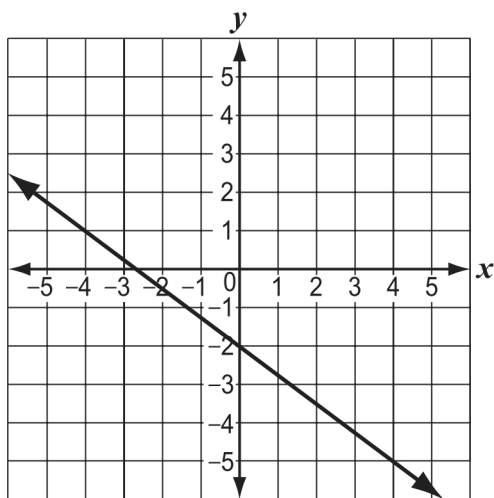

A. slope $= -\frac{1}{2}$; *y*-intercept $= 2$

B. slope $= \frac{1}{2}$; *y*-intercept $= 2$

C. slope $= -\frac{1}{2}$; *y*-intercept $= 4$

D. slope $= \frac{1}{2}$; *y*-intercept $= 4$

48. In which of the following graphs does line *k* best represent a line with a slope of 0?

A.

B.

C.

D.
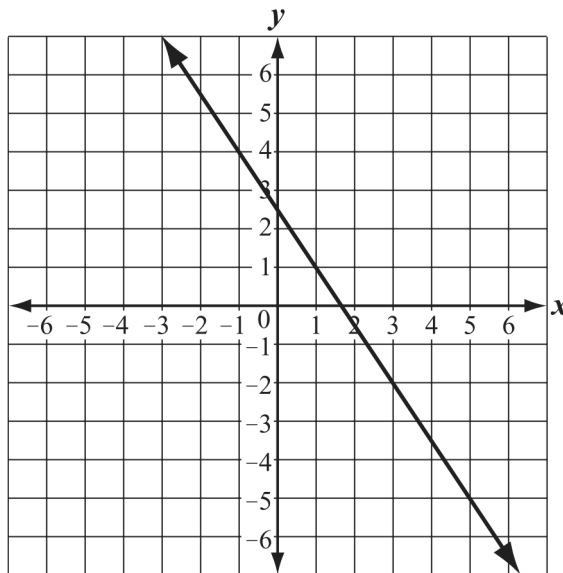
49. Which of the following best represents the slope of the line graphed below?

A. $-\frac{4}{3}$ B. $-\frac{3}{4}$ C. $\frac{3}{4}$ D. $\frac{4}{3}$

50. A line is shown on the coordinate grid below.
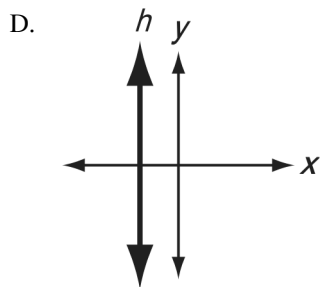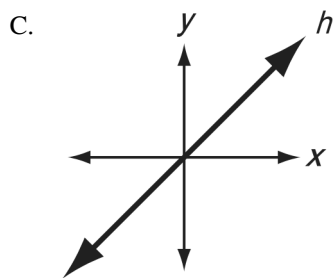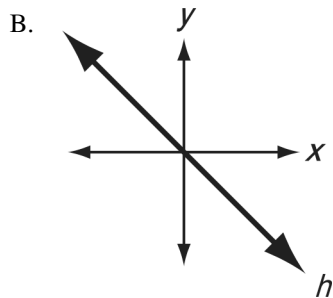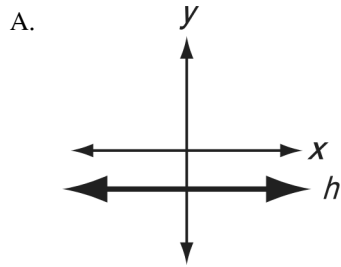

Which of the following best represents the slope of the line?

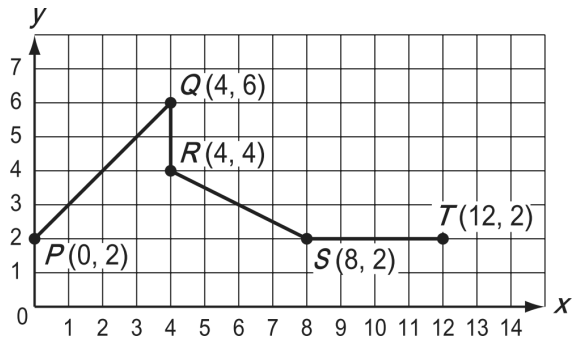A. $\frac{3}{2}$ B. $\frac{2}{3}$ C. $-\frac{2}{3}$ D. $-\frac{3}{2}$

51. In which of the following graphs does line *h* best represent a line with an undefined slope?

A.

B.

C.

D.

52. Four line segments are shown on the coordinate grid below.

Which of the line segments has a slope of 0?

A. $\overline{PQ}$ B. $\overline{QR}$ C. $\overline{RS}$ D. $\overline{ST}$

Unit 8: Slope   01/22/2013

1.
Answer: C

2.
Answer: B

3.
Answer: 2

4.
Answer: C

5.
Answer: A

6.
Answer: B

7.
Answer: A

8.
Answer: D

9.
Answer: D

10.
Answer: C

11.
Answer: C

12.
Answer: B

13.
Answer: A

14.
Answer: B

15.
Answer: B

16.
Answer: C

17.
Answer: C

18.
Answer: B

19.
Answer: C

20.
Answer: -1

21.
Answer: 2

22.
Answer: $\frac{3}{4}$

23.
Answer: 3

24.
Answer: C

25.
Answer: C

26.
Answer: A

27.
Answer: B

28.
Answer: A

29.
Answer: D

30.
Answer: B

31.
Answer: D

32.
Answer: D

33.
Answer: C

34.
Answer: D

35.

36.
Answer: A

37.
Answer: A

38.
Answer: D

39.
Answer: B

40.
Answer: C

41.
Answer: A

42.
Answer: A

43.
Answer: A

44.
Answer: B

45.
Answer: B

46.
Answer: B

47.
Answer: A

48.
Answer: A

49.
Answer: B

50.
Answer: D

51.
Answer: D

52.
Answer: D