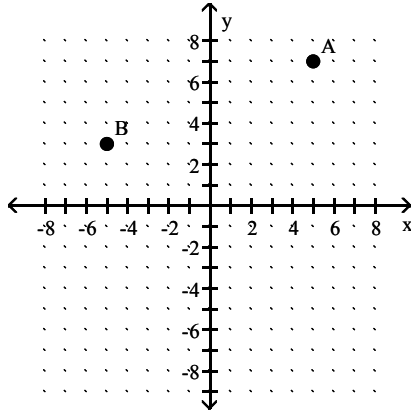


Find the x- and y-coordinates of the following labeled points.

1) _____



- A) A(5, 3); B(7, 3)
- C) A(5, 7); B(-5, 3)

- B) A(5, 7); B(3, -5)
- D) A(7, 26); B(3, -5)

1) _____

Complete the ordered pair for the given equation.

2) $y = -x + 8$ (3,)

- A) (3, -5)

- B) (3, 15)

- C) (3, 5)

- D) (3, 3)

2) _____

3) $y = -3x - 8$ (-1,)

- A) (-1, 24)

- B) (-1, -8)

- C) (-1, 6)

- D) (-1, -5)

3) _____

4) $9x + y = -69$ (0,)

- A) (0, -78)

- B) (0, -621)

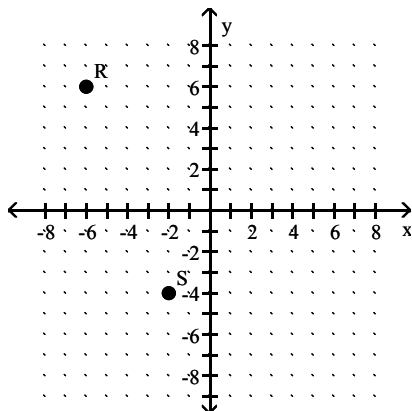
- C) (0, -8)

- D) (0, -69)

4) _____

Find the x- and y-coordinates of the following labeled points.

5) _____



- A) R(-6, -4); S(6, -4)
- C) R(6, 4); S(-4, -2)

- B) R(-6, 6); S(-2, -4)
- D) R(-6, 6); S(-4, -2)

5) _____

Determine whether the ordered pair is a solution of the given linear equation.

6) $x = 24y$; (0, 0)

- A) yes

- B) no

6) _____

7) $x = 9y$; (1, 9)

- A) yes

- B) no

7) _____

8) $y = 5x - 1; (5, 26)$

A) yes

B) no

8) _____

Find three ordered pair solutions by completing the table. Then use the ordered pairs to graph the equation.

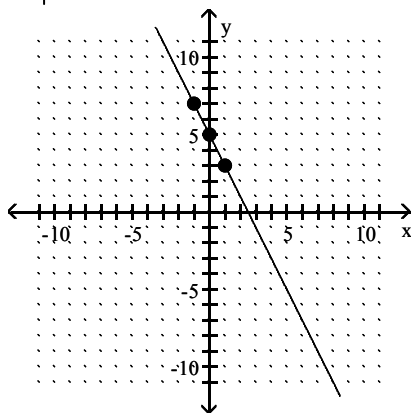
9) $y = 2x + 5$

9) _____

| x | y |
|----|---|
| 0 | |
| 1 | |
| -1 | |

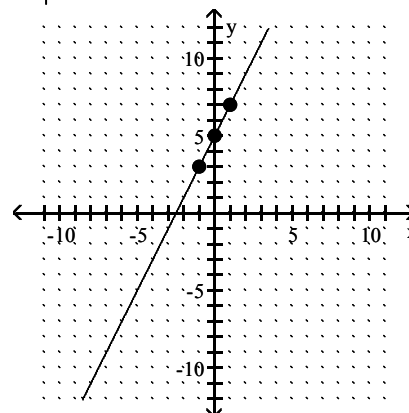
A)

| x | y |
|----|---|
| 0 | 5 |
| 1 | 3 |
| -1 | 7 |



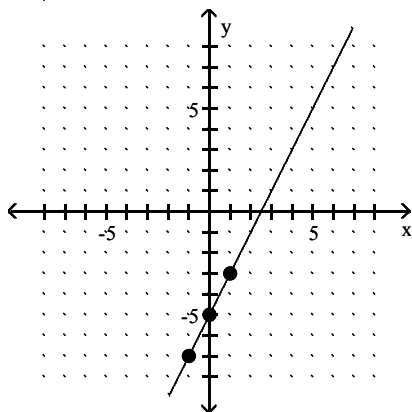
B)

| x | y |
|----|---|
| 0 | 5 |
| 1 | 7 |
| -1 | 3 |



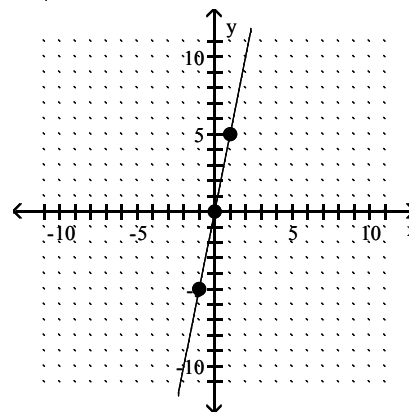
C)

| x | y |
|----|----|
| 0 | -5 |
| 1 | -3 |
| -1 | -7 |



D)

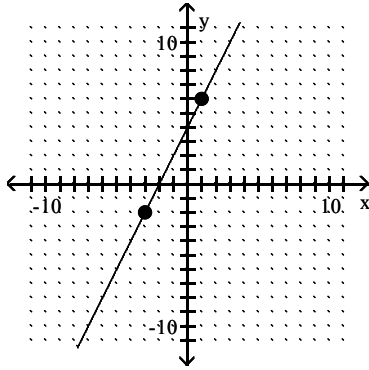
| x | y |
|----|----|
| 0 | 0 |
| 1 | 5 |
| -1 | -5 |



Decide whether the slope is positive, negative, zero, or undefined.

10)

10) _____



A) Undefined

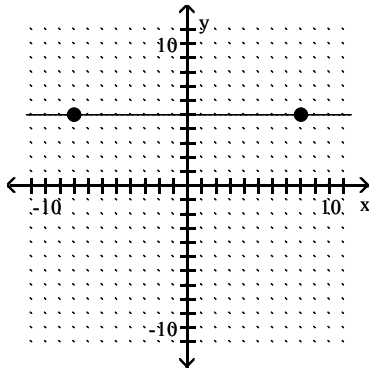
B) Zero

C) Positive

D) Negative

11)

11) _____



A) Undefined

B) Negative

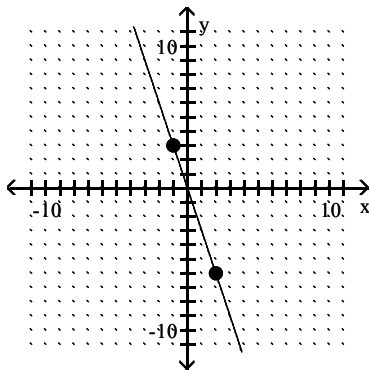
C) Positive

D) Zero

Use the coordinates of the indicated points to find the ratio of rise to run for the line.

12)

12) _____



A) 3

B) $-\frac{1}{3}$

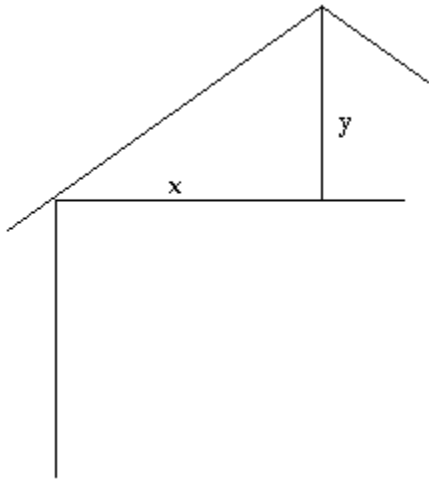
C) $\frac{1}{3}$

D) -3

Solve the problem.

13)

13) _____



Let $x = 28$ and $y = 7$. Find the pitch of the roof.

A) $\frac{1}{3}$

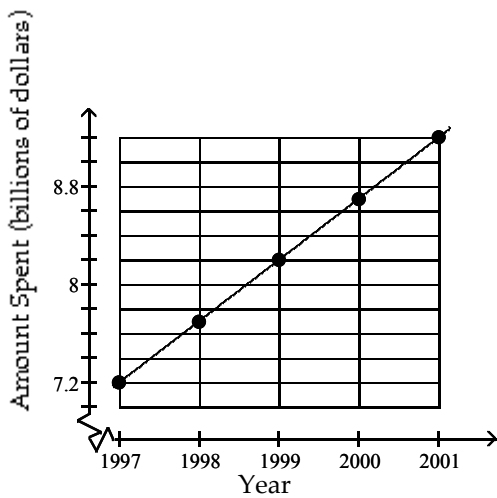
B) $\frac{1}{4}$

C) $\frac{1}{2}$

D) $\frac{1}{6}$

14) Data regarding the amount spent by a government department is represented in the following graph. Find the change in amount spent for the years shown in the graph. Is the graph a straight line?

14) _____



A) Change for each year: \$0.325 billion; yes

B) Change from 1998 to 1999: \$0.5 billion, change from 1999 to 2000: \$0.12 billion; no

C) Change for each year: \$0.12 billion; yes

D) Change for each year: \$0.5 billion; yes

Find the slope of the line going through the given pair of points.

15) (1, 5) and (8, 9)

15) _____

A) 4

B) $\frac{1}{4}$

C) $\frac{7}{4}$

D) $\frac{4}{7}$

16) (-5, 0) and (0, -9)

16) _____

A) $-\frac{5}{9}$

B) $-\frac{9}{5}$

C) $\frac{5}{9}$

D) $\frac{9}{5}$

Find the slope of the line that passes through the given points.

17) (3, -17) and (-6, 7)

A) $\frac{10}{3}$

B) $-\frac{3}{8}$

C) $\frac{8}{3}$

D) $-\frac{8}{3}$

17) _____

18) (-9, -6) and (-9, -3)

A) 0

B) undefined

C) $\frac{1}{2}$

D) $\frac{1}{6}$

18) _____

Find the slope of the line.

19) $x = -5$

A) $m = -1$

C) $m = 1$

B) $m = 0$

D) undefined slope

19) _____

20) $y = 4x + 5$

A) $m = 4$

B) $m = 5$

C) $m = -4$

D) $m = \frac{1}{4}$

20) _____

21) $x + y = -3$

A) $m = 1$

C) undefined slope

B) $m = 0$

D) $m = -1$

21) _____

22) $3x - 8y = 24$

A) $m = -\frac{3}{8}$

B) $m = \frac{3}{8}$

C) $m = \frac{8}{3}$

D) $m = 3$

22) _____

Write an equation of the line with the given slope, m , and y -intercept (0, b).

23) $m = 4, b = 7$

A) $y = -4x - 7$

B) $y = -7x - 4$

C) $y = 4x + 7$

D) $y = 7x + 4$

23) _____

24) $m = \frac{1}{3}, b = 2$

A) $y = \frac{1}{3}x + 2$

B) $y = \frac{1}{3}x - 2$

C) $y = -\frac{1}{3}x + 2$

D) $y = -\frac{1}{3}x - 2$

24) _____

25) $m = \frac{9}{2}, b = -7$

A) $y = \frac{9}{2}x + 7$

B) $y = -\frac{9}{2}x - 7$

C) $y = \frac{9}{2}x - 7$

D) $y = -\frac{9}{2}x + 7$

25) _____

Find an equation of the line with the given slope that passes through the given point. Write the equation in the form $Ax + By = C$.

26) $m = 6; (4, 9)$

A) $6x - y = 15$

B) $6x - y = 50$

C) $6x - y = -33$

D) $6x - y = -9$

26) _____

27) $m = -5; (-1, -10)$

A) $5x + y = 15$

B) $5x + y = -51$

C) $5x + y = -15$

D) $5x + y = -10$

27) _____

28) $m = -\frac{1}{5}; (1, 0)$

28) _____

A) $x + 1y = 5$

B) $x + 5y = 1$

C) $x + 5y = 5$

D) $x + 5y = -1$

Find an equation of the line described. Write the equation in slope-intercept form if possible.

29) Slope 3, through (6, 4)

29) _____

A) $y = 3x + 14$

B) $x = 3y + 14$

C) $y = 3x - 14$

D) $x = 3y - 14$

30) Slope $\frac{8}{9}$, through (3, 3)

30) _____

A) $y = \frac{8}{9}x + \frac{1}{3}$

B) $y = \frac{8}{9}x - \frac{1}{3}$

C) $y = -\frac{8}{9}x + \frac{1}{3}$

D) $y = -\frac{8}{9}x - \frac{1}{3}$

31) Through (1, 8) and (7, 38)

31) _____

A) $y = 5x + 3$

B) $y = -\frac{1}{5}x + \frac{41}{5}$

C) $y = -5x + 13$

D) $y = \frac{1}{5}x + \frac{39}{5}$

32) Through (5, -24) and (-8, 15)

32) _____

A) $y = -3x - 9$

B) $y = -\frac{1}{3}x - \frac{67}{3}$

C) $y = \frac{1}{3}x - \frac{77}{3}$

D) $y = 3x - 39$

Determine whether the pair of lines is parallel, perpendicular, or neither.

33) $y = 2x + 1$

33) _____

$y = -2x + 5$

A) parallel

B) perpendicular

C) neither

34) $y = 5x + 8$

34) _____

$x - 5y = -4$

A) parallel

B) perpendicular

C) neither

Find the domain and the range of the relation.

35) $\{(9, 1), (-10, 0), (-2, -2), (13, -10)\}$

35) _____

A) domain: $\{-10, -2, 9, 13\}$; range: $\{-10, -2, 0, 1\}$

B) domain: $\{-10, -2, 9, 13\}$; range: $\{0, 1\}$

C) domain: $\{-2, 0, 9, 13\}$; range: $\{-10, -2, 1, 13\}$

D) domain: $\{-10, 0, 1, 9\}$; range: $\{-10, -2, 13\}$

36) $\{(8, 3), (-7, 3), (-5, 3)\}$

36) _____

A) domain: $\{3\}$; range: $\{-7, -5, 8\}$

B) domain: $\{-7, 3, 8\}$; range: $\{-5\}$

C) domain: $\{-7, -5, 8\}$; range: $\{3\}$

D) domain: $\{-7, -5\}$; range: $\{3, 8\}$

Determine whether the relation is also a function.

37) $\{(-1, -7), (2, -2), (4, -2), (7, -7), (10, -7)\}$

37) _____

A) yes

B) no

38) $\{(1, -6), (1, -3), (6, 8), (7, 5), (10, -3)\}$

38) _____

A) yes

B) no

39) $\{(-8, -3), (-8, 7), (-1, 6), (5, 1), (10, -3)\}$

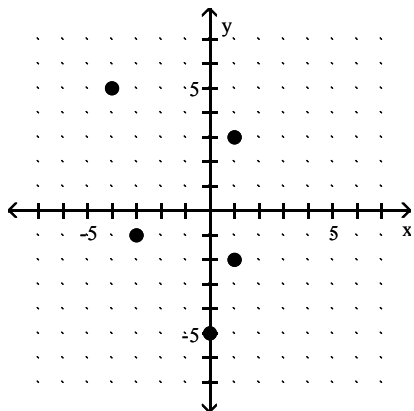
39) _____

A) yes

B) no

Determine whether the graph is the graph of a function.

40)

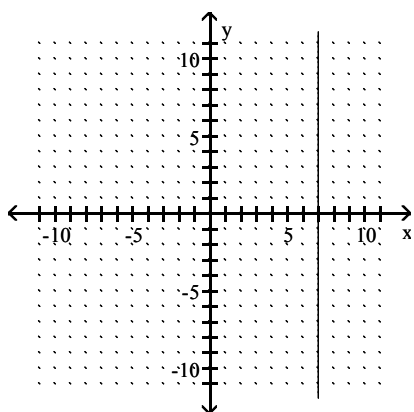


A) yes

B) no

40) _____

41)



A) yes

B) no

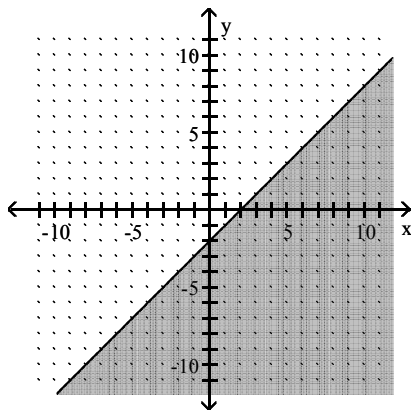
41) _____

Graph the inequality.

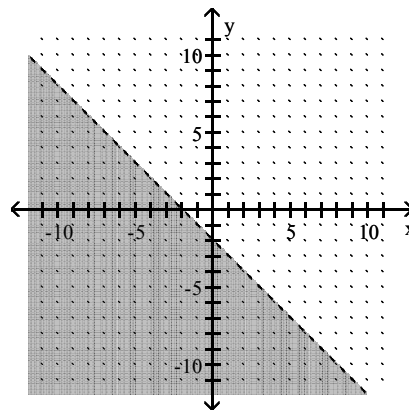
42) $x + y \leq -2$

42) _____

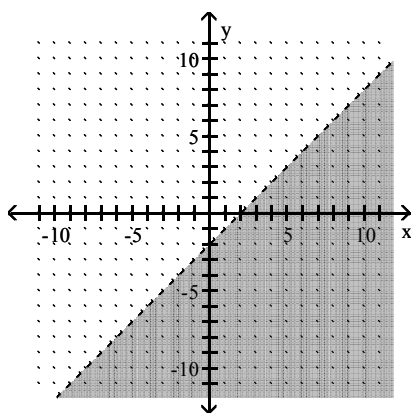
A)



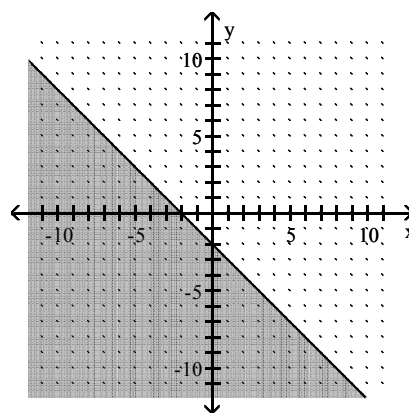
B)



C)



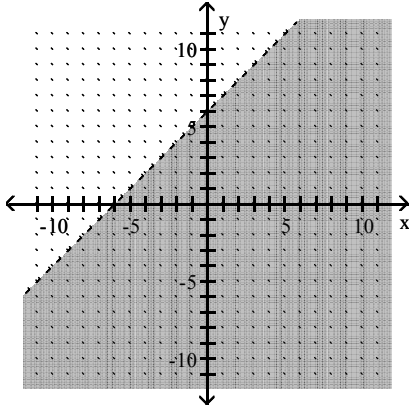
D)



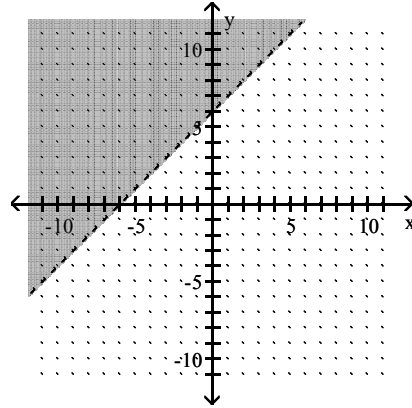
43) $x - y > -6$

43) _____

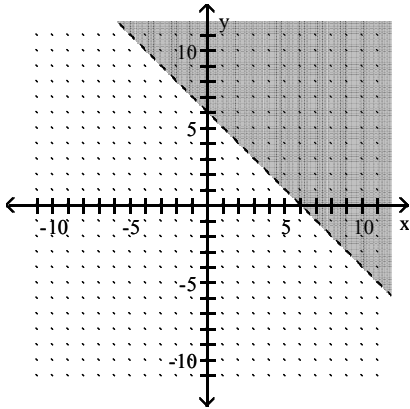
A)



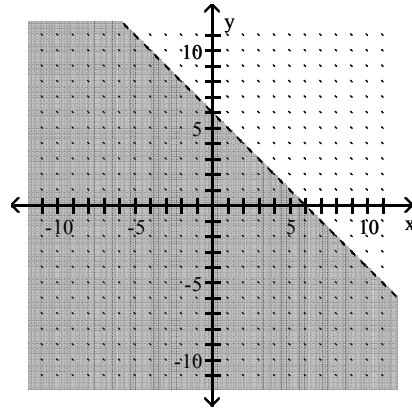
B)



C)



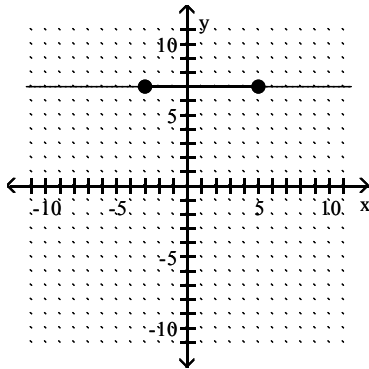
D)



Use the coordinates of the indicated points to find the ratio of rise to run for the line.

44)

44) _____



A) 2

B) Undefined

C) 7

D) 0

Answer Key
Testname: PP3

- 1) C
- 2) C
- 3) D
- 4) D
- 5) B
- 6) A
- 7) B
- 8) B
- 9) B
- 10) C
- 11) D
- 12) D
- 13) B
- 14) D
- 15) D
- 16) B
- 17) D
- 18) B
- 19) D
- 20) A
- 21) D
- 22) B
- 23) C
- 24) A
- 25) C
- 26) A
- 27) C
- 28) B
- 29) C
- 30) A
- 31) A
- 32) A
- 33) C
- 34) C
- 35) A
- 36) C
- 37) A
- 38) B
- 39) B
- 40) B
- 41) B
- 42) D
- 43) A
- 44) D