

Name _____

Indicate in which quadrant the point lies.

1) (5, 11)

1) _____

2) (-6, -16)

2) _____

3) (16, -13)

3) _____

4) $\left(-\frac{5}{8}, \frac{7}{8}\right)$

4) _____

5) $\left(-\frac{1}{3}, -\frac{7}{8}\right)$

5) _____

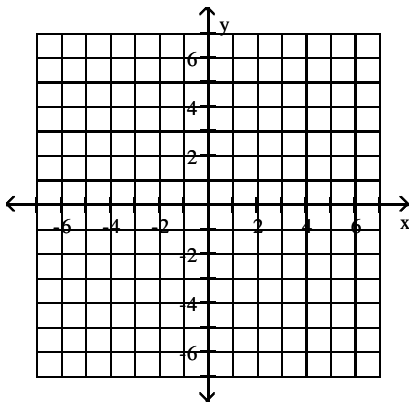
6) $\left(\frac{6}{7}, -\frac{1}{4}\right)$

6) _____

Plot the given point in a rectangular coordinate system.

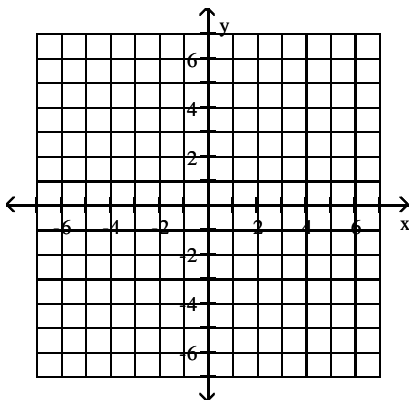
7) $(-6, 5)$

7) _____



8) $(5, -2)$

8) _____



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

9) $(5, -1)$
 $y = x - 6$

9) _____

10) $(-5, -6)$
 $y = x + 11$

10) _____

11) $(5, 6)$
 $x - y = -1$

11) _____

12) $(4, -5)$
 $x - y = 1$

12) _____

13) $(-4, -5)$
 $2x + 4y = -28$

13) _____

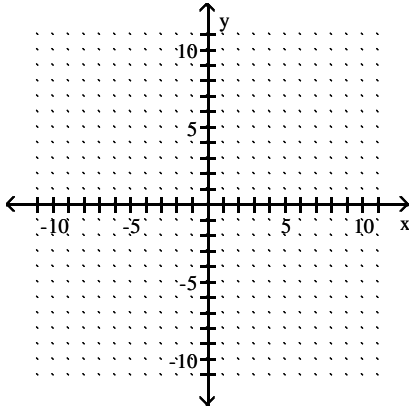
14) $(-1, -5)$
 $2x + 3y = 13$

14) _____

Write the sentence as a linear equation in two variables. Then graph the equation.

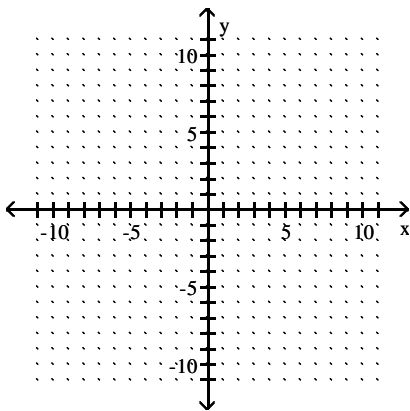
15) The y-variable is 7 less than the x-variable.

15) _____



16) The y-variable is 5 less than 7 times the x-variable.

16) _____



Find the x -intercept and the y -intercept of the graph of the equation. Do not graph the equation.

17) $x + y = 4$

17) _____

18) $x + y = -2$

18) _____

19) $3x + y = -6$

19) _____

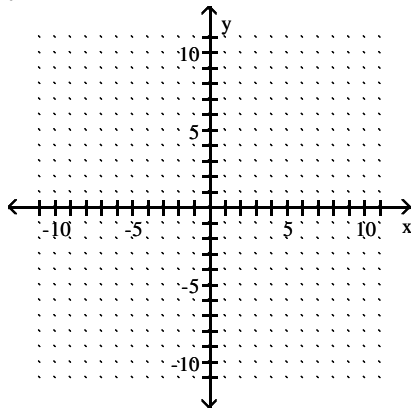
20) $2x + 5y = 10$

20) _____

Graph the equation.

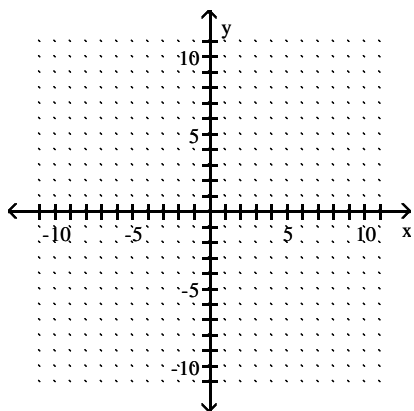
21) $y = -9$

21) _____

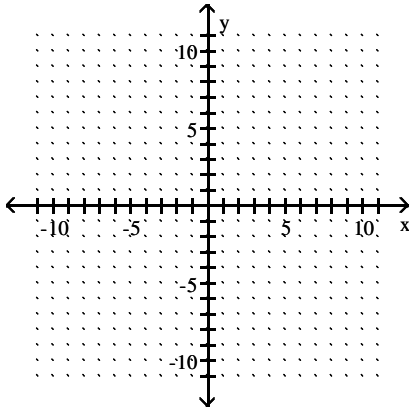


22) $x = 3$

22) _____

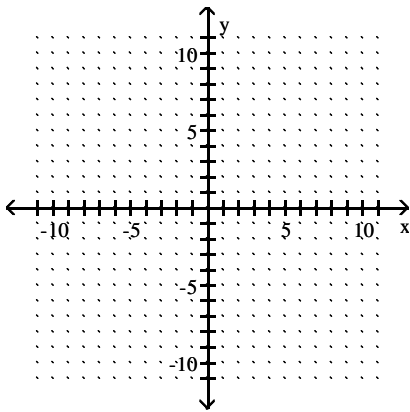


23) $y + 2 = 0$



23) _____

24) $20x = -60$



24) _____

Determine whether the lines through each pair of points are parallel.

25) $(-8, 0)$ and $(10, -12)$; $(-7, -6)$ and $(2, -12)$

25) _____

26) $(2, -8)$ and $(-2, -24)$; $(3, 8)$ and $(5, 0)$

26) _____

27) $(-2, 10)$ and $(2, 16)$; $(-5, 1)$ and $(-3, 4)$

27) _____

Determine whether the lines through each pair of points are perpendicular.

28) $(2, -9)$ and $(14, 9)$; $(8, 1)$ and $(14, 10)$

28) _____

29) $(8, -9)$ and $(-4, -19)$; $(1, 2)$ and $(-4, -4)$

29) _____

30) $(8, 1)$ and $(10, -7)$; $(0, 5)$ and $(4, 6)$

30) _____

Find the slope of the line.

31) $y = 5x$

31) _____

32) $y = 6x - 9$

32) _____

33) $y = 3$

33) _____

34) $4x + y = -8$

34) _____

Find the y-intercept.

35) $y = -3x$

35) _____

36) $y = -5x - 6$

36) _____

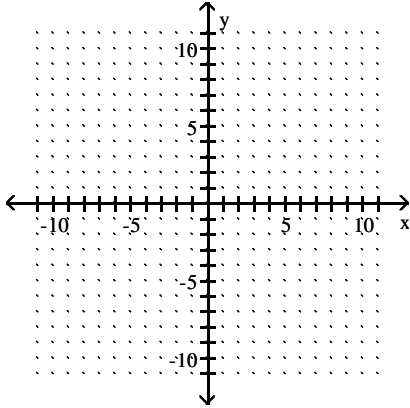
37) $-2x + y = 4$

37) _____

Graph the linear equation using the slope and y-intercept.

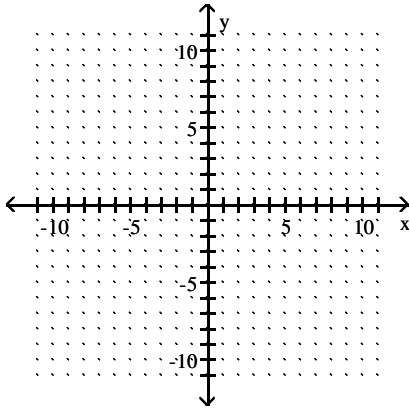
38) $y = -4x + 2$

38) _____



39) $y = -\frac{1}{2}x + 5$

39) _____



Find the point-slope form of the equation of the line satisfying the given conditions and use this to write the slope-intercept form of the equation.

40) Slope = 2, passing through (3, 2)

40) _____

41) Slope = 2, passing through (-9, 9)

41) _____

42) Slope = $-\frac{3}{2}$, passing through (2, -6)

42) _____

Write an equation in slope-intercept form of the line satisfying the given conditions.

43) Parallel to the line $y = 2x$; containing the point (2, 6)

43) _____

44) Parallel to the line $y = 9$; containing the point (4, 2)

44) _____

45) Perpendicular to the line $x - 5y = 5$; containing the point (-2, -5).

45) _____

46) Perpendicular to the line $y = -3x - 4$; containing the point (2, -1).

46) _____

Determine if the ordered pair satisfies the inequality.

47) $x + y > 7$: $(-2, 10)$

47) _____

48) $x - y \leq 7$: $(-2, 1)$

48) _____

49) $x - y \leq -3$: $(-5, -5)$

49) _____

50) $2x + 3y \leq 3$: $(6, 4)$

50) _____

51) $x + 2y > -6$: $(-3, 1)$

51) _____

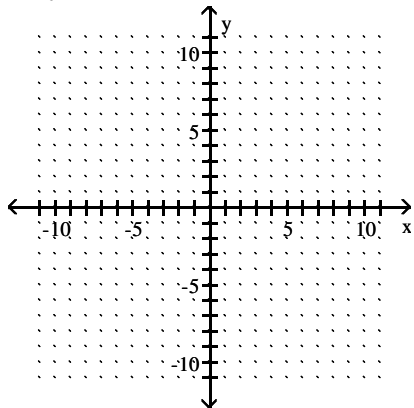
52) $x + 2y < -6$: $(6, -5)$

52) _____

Graph the inequality.

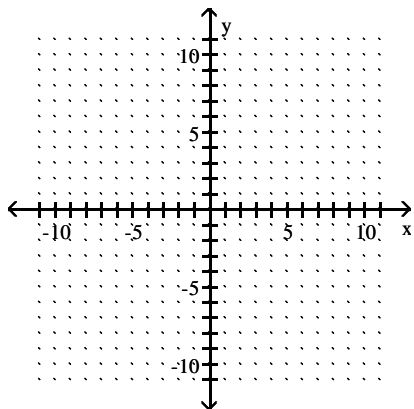
53) $x - y > -5$

53) _____

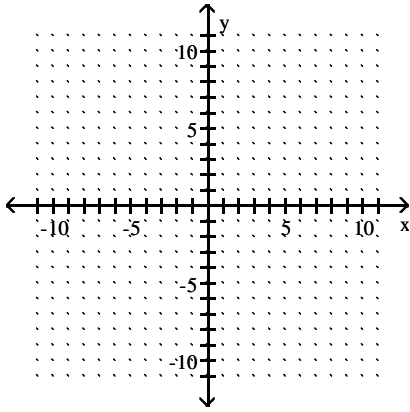


54) $x + y < -6$

54) _____

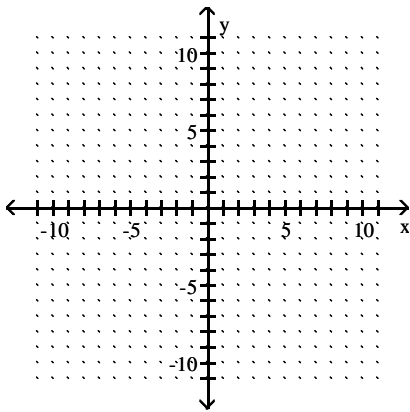


55) $x + y \leq 2$



55) _____

56) $2x + y \leq 1$

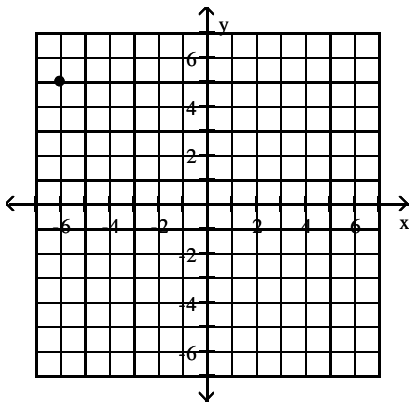


56) _____

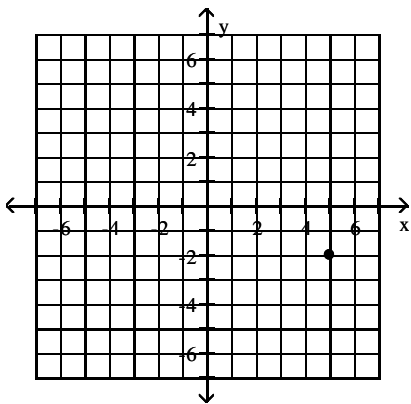
Answer Key

Testname: E02PREPCH04V02

- 1) I
- 2) III
- 3) IV
- 4) II
- 5) III
- 6) IV
- 7)



8)

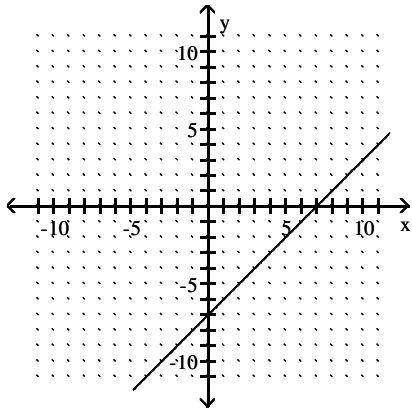


- 9) Yes
- 10) No
- 11) Yes
- 12) No
- 13) Yes
- 14) No

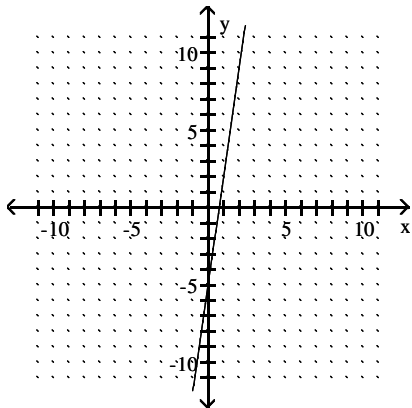
Answer Key

Testname: E02PREPCH04V02

15) $y = x - 7$



16) $y = 7x - 5$



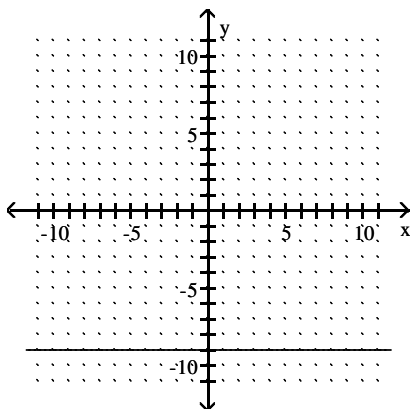
17) x-intercept = 4; y-intercept = 4

18) x-intercept = -2; y-intercept = -2

19) x-intercept = -2; y-intercept = -6

20) x-intercept = 5; y-intercept = 2

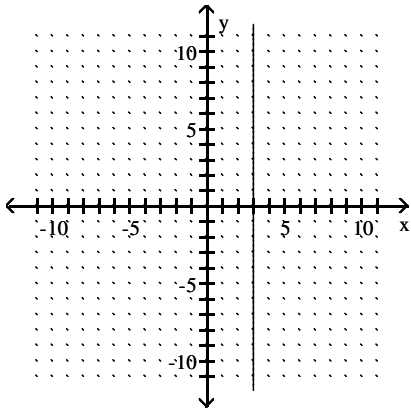
21)



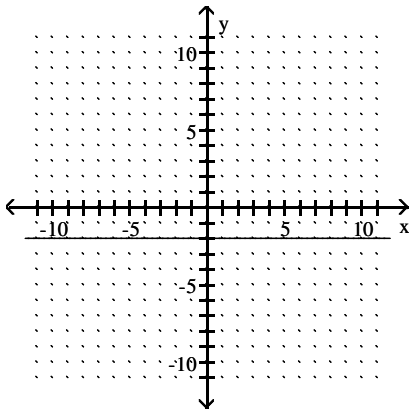
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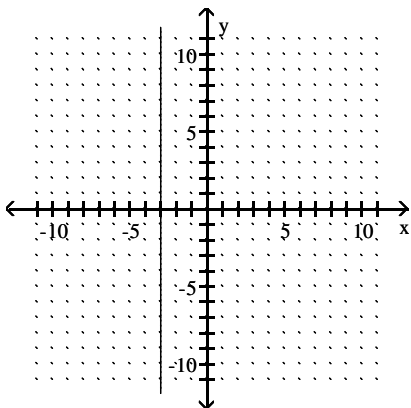
22)



23)



24)



25) parallel

26) not parallel

27) parallel

28) not perpendicular

29) not perpendicular

30) perpendicular

31) 5

32) 6

33) 0

34) - 4

35) 0

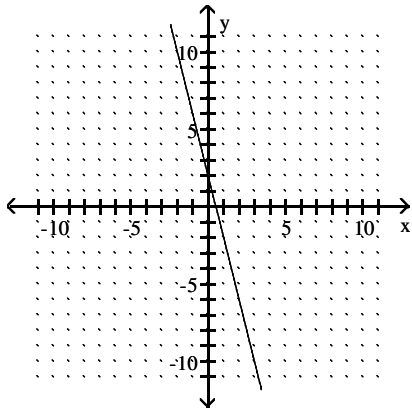
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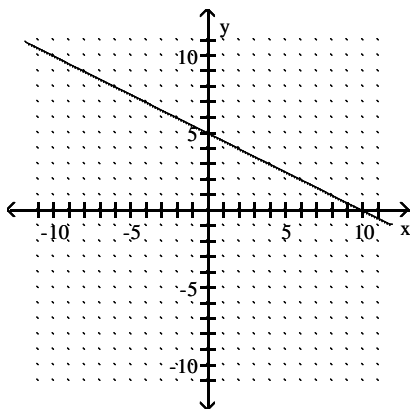
36) -6

37) 4

38)



39)



40) $y = 2x - 4$

41) $y = 2x + 27$

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

43) $y = 2x + 2$

44) $y = 2$

45) $y = -5x - 15$

46) $y = \frac{1}{3}x - \frac{5}{3}$

47) Yes

48) Yes

49) No

50) No

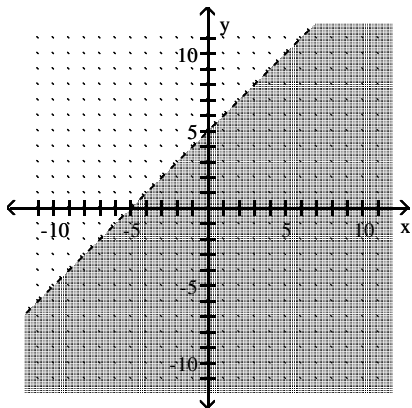
51) Yes

52) No

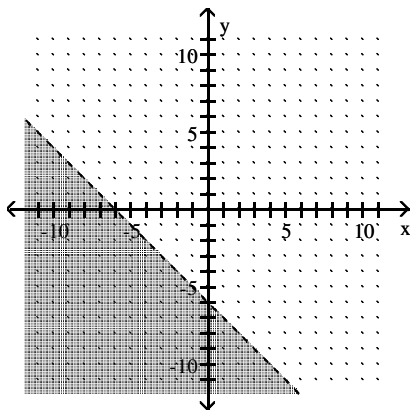
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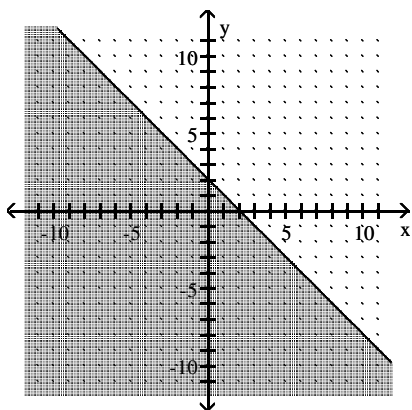
53)



54)



55)



Answer Key

Testname: E02PREPCH04V02

56)

