

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Indicate in which quadrant the point lies.

1) (7, 13)

A) IV

B) II

C) I

D) III

1) _____

2) (-20, -2)

A) III

B) I

C) IV

D) II

2) _____

3) (2, -9)

A) IV

B) III

C) I

D) II

3) _____

4) $\left(-\frac{3}{7}, \frac{2}{5}\right)$

A) II

B) IV

C) III

D) I

4) _____

5) $\left(-\frac{1}{2}, -\frac{2}{5}\right)$
A) I

B) II

C) IV

D) III

5) _____

6) $\left(\frac{3}{7}, -\frac{1}{4}\right)$
A) I

B) IV

C) II

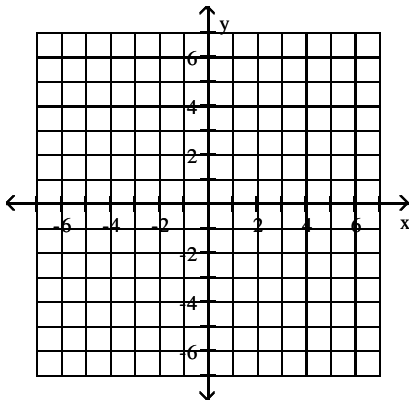
D) III

6) _____

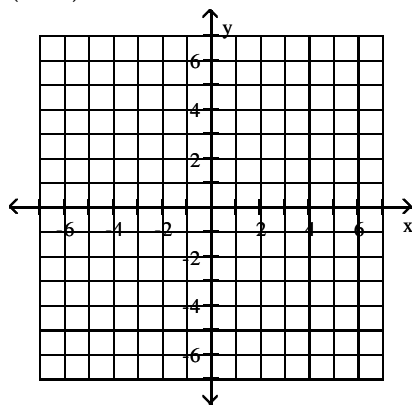
Plot the given point in a rectangular coordinate system.

7) $(-3, 4)$

7) _____



8) (1, -4)



8) _____

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

9) (3, 1)
 $y = x - 2$

9) _____

10) (3, -2)
 $y = x - 1$

10) _____

11) (6, -2)
 $x - y = 8$

11) _____

12) $(3, -4)$
 $x - y = 1$

12) _____

13) $(-6, -1)$
 $4x + 2y = -26$

13) _____

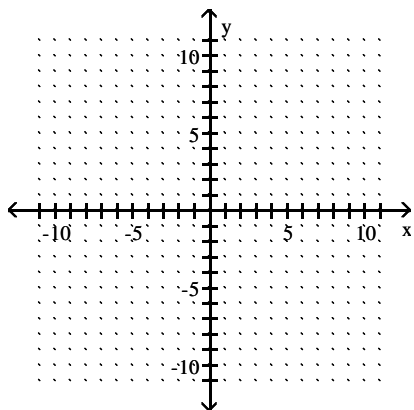
14) $(-3, 5)$
 $3x + 4y = -29$

14) _____

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

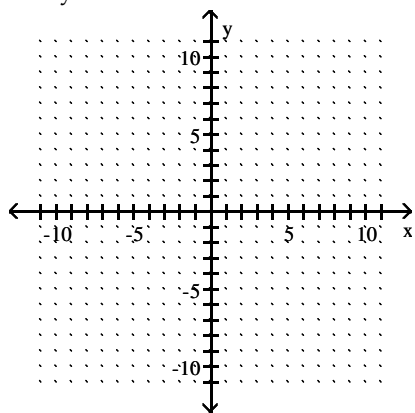
15) The y-variable is 3 less than the x-variable.

15) _____



16) The y-variable is 5 less than 9 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) $x + y = 5$

17) _____

18) $x + y = -8$

18) _____

19) $2x + y = -6$

19) _____

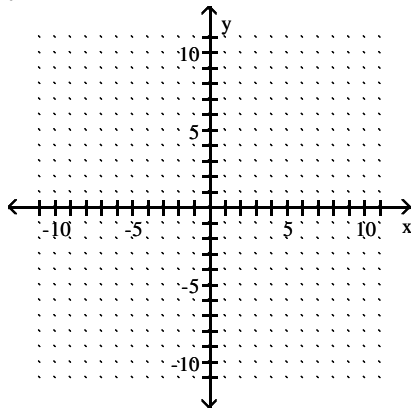
20) $5x + 4y = 20$

20) _____

Graph the equation.

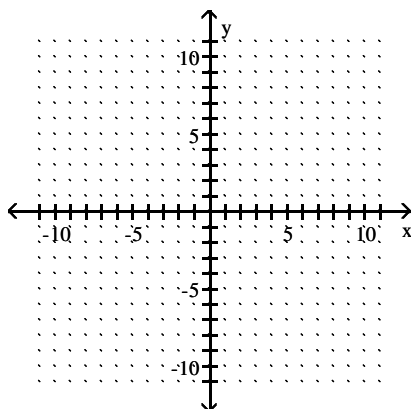
21) $y = 4$

21) _____

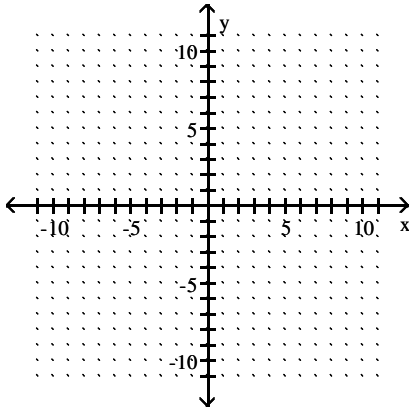


22) $x = 4$

22) _____

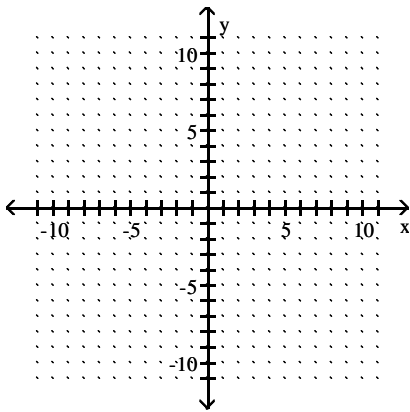


23) $y + 3 = 0$



23) _____

24) $11x = 55$



24) _____

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

25) $(-6, 0)$ and $(-16, 14)$; $(9, 6)$ and $(4, 13)$

25) _____

26) $(-3, 10)$ and $(-5, -10)$; $(2, -4)$ and $(3, -14)$

26) _____

27) $(9, 7)$ and $(-11, 19)$; $(-6, -2)$ and $(-16, 4)$

27) _____

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

28) $(-2, -2)$ and $(-20, 6)$; $(9, -8)$ and $(0, -4)$

28) _____

29) $(6, 4)$ and $(-4, 16)$; $(5, -6)$ and $(11, -11)$

29) _____

30) $(-5, -5)$ and $(7, 11)$; $(17, -7)$ and $(9, -1)$

30) _____

Find the slope of the line.

31) $y = 3x$

31) _____

32) $y = -4x - 2$

32) _____

33) $y = 8$

33) _____

34) $-4x + y = 9$

34) _____

Find the y-intercept.

35) $y = -7x$

35) _____

36) $y = -4x + 1$

36) _____

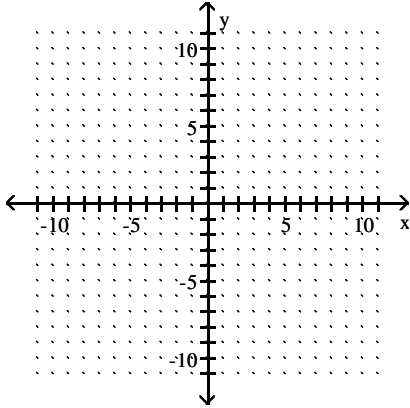
37) $-9x + y = 1$

37) _____

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

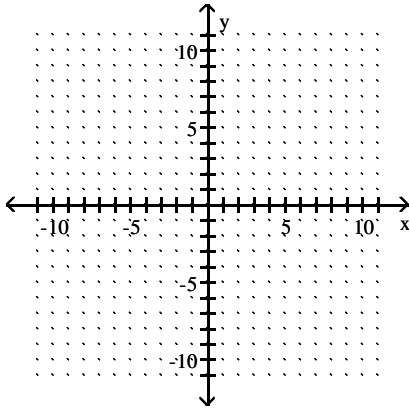
38) $y = 5x + 6$

38) _____



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

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 = 5, passing through (5, 2)

40) _____

41) Slope = 3, passing through (-1, -8)

41) _____

42) Slope = $-\frac{5}{2}$, passing through (2, -1)

42) _____

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

43) Parallel to the line $y = -3x$; containing the point (8, 8)

43) _____

44) Parallel to the line $y = -3$; containing the point (8, 4)

44) _____

45) Perpendicular to the line $x - 3y = 3$; containing the point (5, 2).

45) _____

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

46) _____

Determine if the ordered pair satisfies the inequality.

47) $x + y > -3$: $(-5, 3)$

47) _____

48) $x - y \leq 6$: $(2, 1)$

48) _____

49) $x - y \leq 8$: $(-1, -11)$

49) _____

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

50) _____

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

51) _____

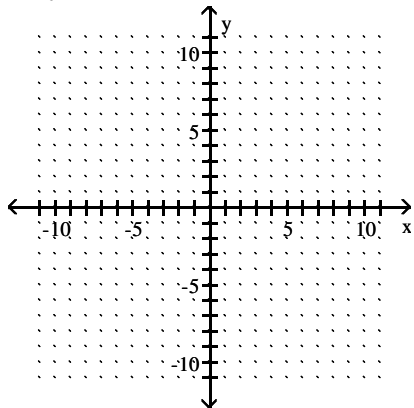
52) $x + 2y < -6$: $(3, -4)$

52) _____

Graph the inequality.

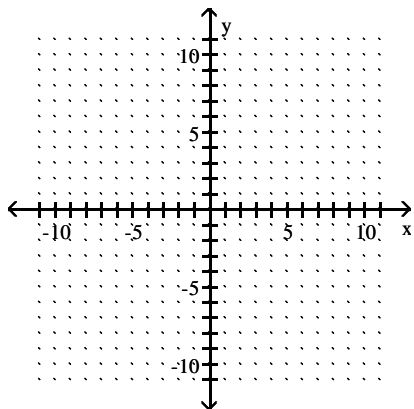
53) $x - y > -6$

53) _____

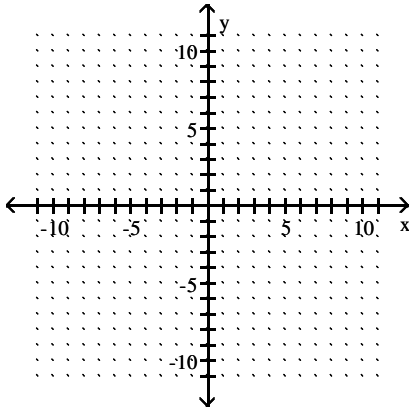


54) $x + y < -5$

54) _____

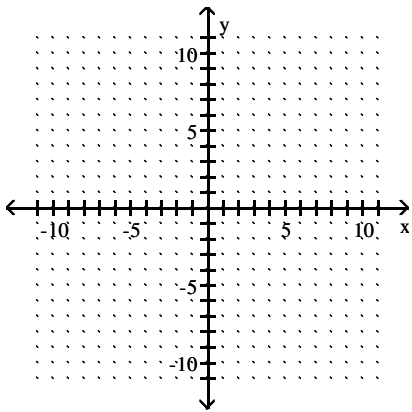


55) $x + y \leq 7$



55) _____

56) $5x + y \leq -1$

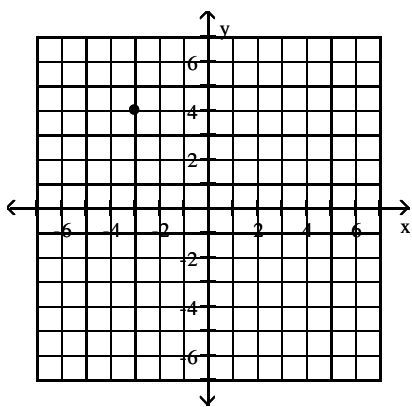


56) _____

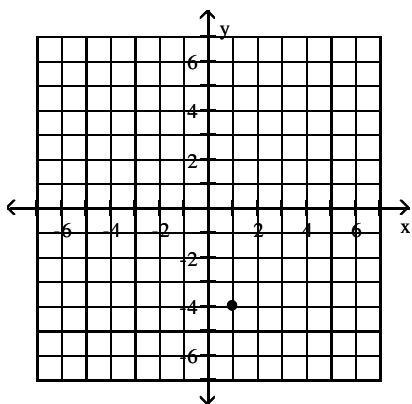
Answer Key

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- 1) C
- 2) A
- 3) A
- 4) A
- 5) D
- 6) B
- 7)



8)

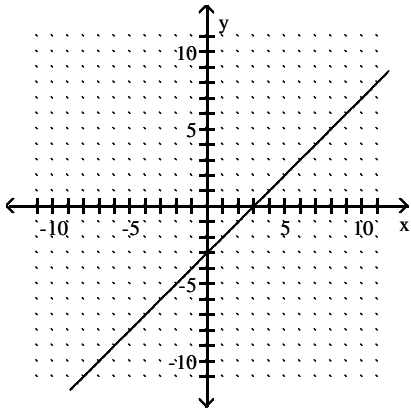


- 9) Yes
- 10) No
- 11) Yes
- 12) No
- 13) Yes
- 14) No

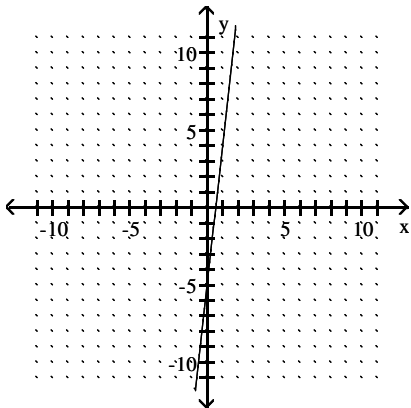
Answer Key

Testname: E02PREPCH04V01

15) $y = x - 3$



16) $y = 9x - 5$



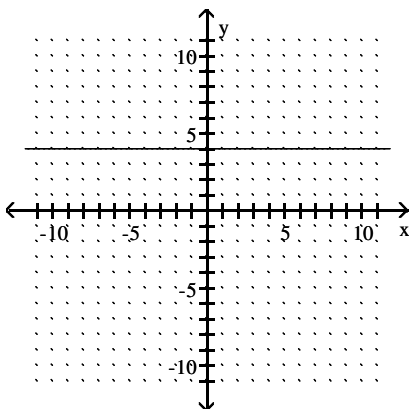
17) x-intercept = 5; y-intercept = 5

18) x-intercept = -8; y-intercept = -8

19) x-intercept = -3; y-intercept = -6

20) x-intercept = 4; y-intercept = 5

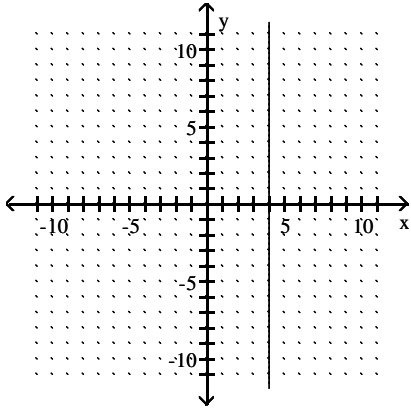
21)



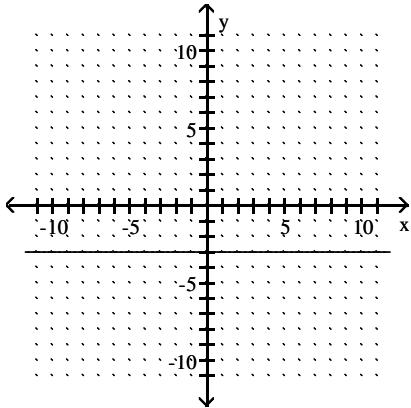
Answer Key

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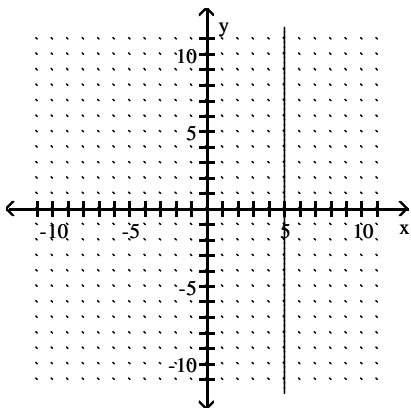
22)



23)



24)



25) parallel

26) not parallel

27) parallel

28) not perpendicular

29) not perpendicular

30) perpendicular

31) 3

32) - 4

33) 0

34) 4

35) 0

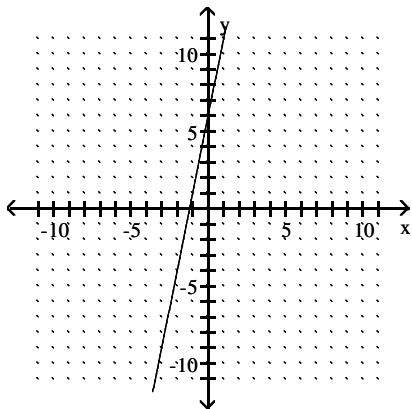
Answer Key

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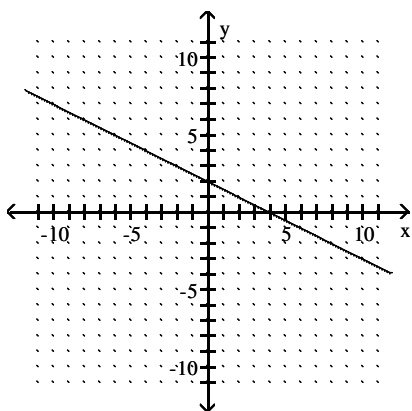
36) 1

37) 1

38)



39)



40) $y = 5x - 23$

41) $y = 3x - 5$

42) $y = -\frac{5}{2}x + 4$

43) $y = -3x + 32$

44) $y = 4$

45) $y = -3x + 17$

46) $y = \frac{1}{4}x - \frac{1}{4}$

47) Yes

48) Yes

49) No

50) No

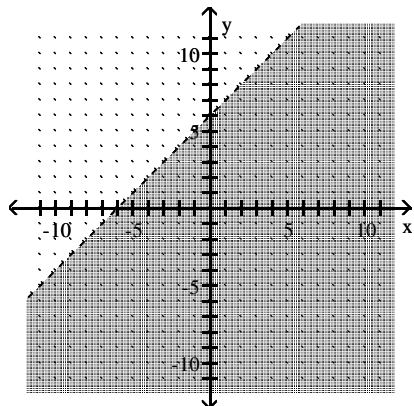
51) Yes

52) No

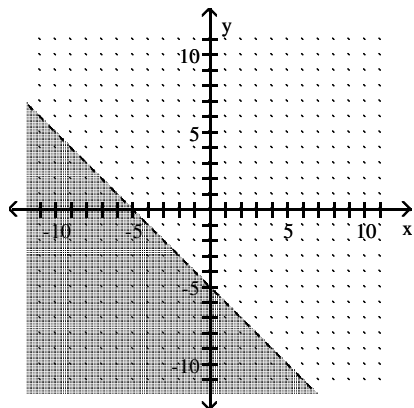
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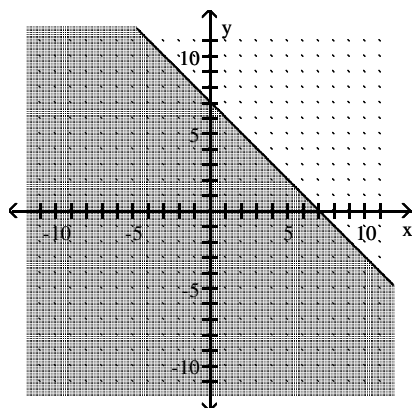
53)



54)



55)



Answer Key

Testname: E02PREPCH04V01

56)

