

Quiz 2

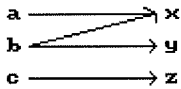
Name _____

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

Is the following correspondence a function?

1)

1) _____



A) No

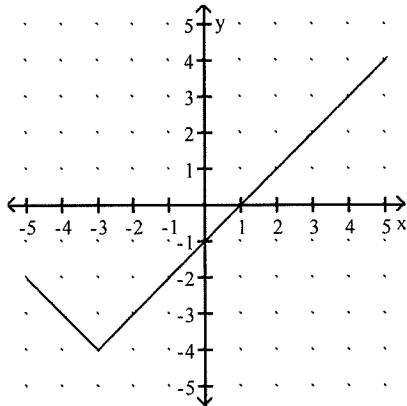
B) Yes

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

The graph of a function f is provided. Determine the requested function value.

2) $f(-2)$

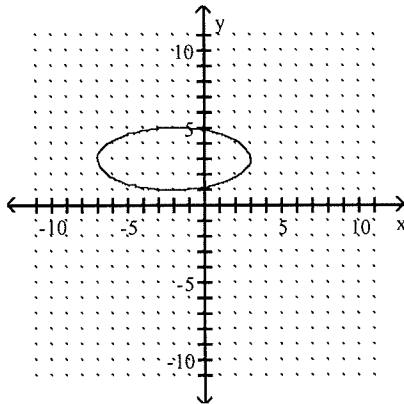
2) _____



Determine whether the graph is the graph of a function.

3)

3) _____



Find the function value.

4) Find $f(2)$ when $f(x) = x^2 + 2x + 6$.

4) _____

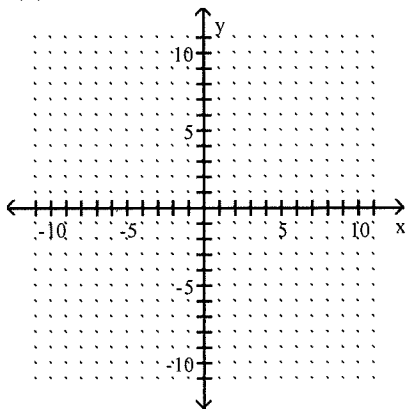
5) Find $f(a + 4)$ when $f(x) = x^2 + 5$.

5) _____

Graph.

6) $f(x) = 2x - 6$

6) _____



Find the slope of the line containing the two given points.

7) $(9, -2)$ and $(-8, 6)$

7) _____

8) $(-2, 2)$ and $(-3, 2)$

8) _____

Find a linear function whose graph has the given slope and y-intercept.

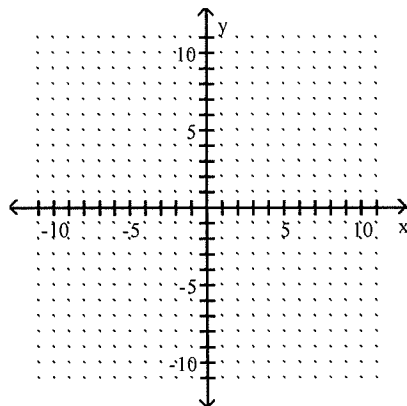
9) Slope $\frac{9}{2}$, y-intercept $(0, -14)$

9) _____

Find the y-intercept and slope for the graph of the equation. Then graph the equation.

10) $y = 7$

10) _____



Find the slope of the line.

11) $2x + 5y = 19$

11) _____

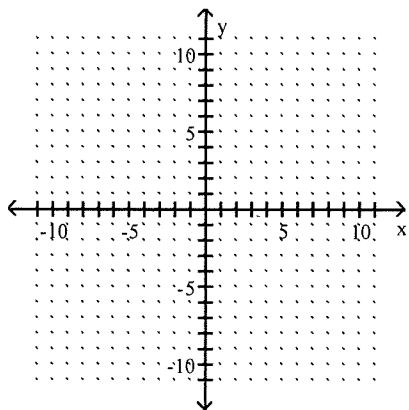
12) $6 - 12x = 10 + 9x$

12) _____

Graph the linear equation.

13) $x = -3$

13) _____



Determine whether the graphs of the equations are parallel lines, perpendicular lines, or neither.

14) $3x - 6y = 10$

14) _____

$18x + 9y = 10$

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

15) $y + 16 = 3x$

15) _____

$x - y = 4$

A) Perpendicular

B) Parallel

C) Neither

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

16) $12x + 4y = 16$

16) _____

$27x + 9y = 40$

Find an equation for the described linear function.

17) Through $\left(0, \frac{2}{5}\right)$ and parallel to $6x + 9y = 9$

17) _____

18) Through $(0, -8)$ and perpendicular to $y = 2x + 8$

18) _____

19) Through $(-2, -6)$, perpendicular to $9x + 4y = 6$

19) _____

Determine whether the equation is linear.

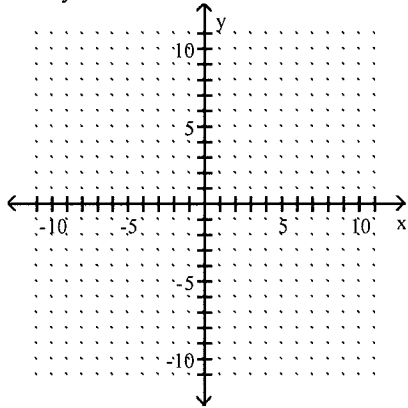
20) $-81x + 42y = 0$

20) _____

Graph the linear inequality in two variables.

21) $3x + y \leq 3$

21) _____



Write the slope-intercept form of the equation for the line passing through the given pair of points.

22) $(6, -4)$ and $(0, 3)$

22) _____

23) $(-10, -8)$ and $(-6, -8)$

23) _____

24) $(-2, -10)$ and $(-2, -1)$

24) _____

Write an equation of the line with the given slope and y-intercept.

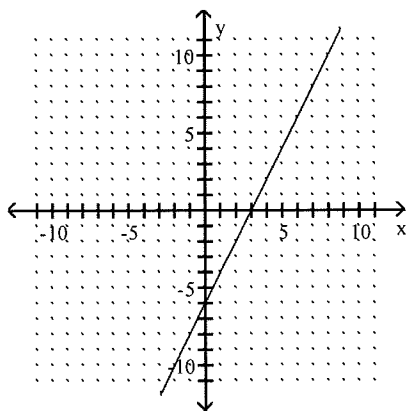
25) Undefined slope; $(-10, 9)$

25) _____

Answer Key

Testname: UNTITLED1

- 1) A
- 2) -3
- 3) Not a function
- 4) 14
- 5) $a^2 + 8a + 21$
- 6)

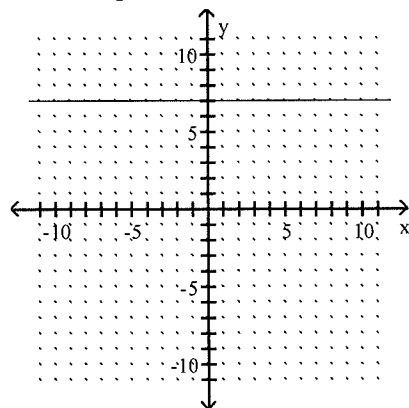


7) $-\frac{8}{17}$

8) 0

9) $f(x) = \frac{9}{2}x - 14$

10) (0, 7); slope: 0



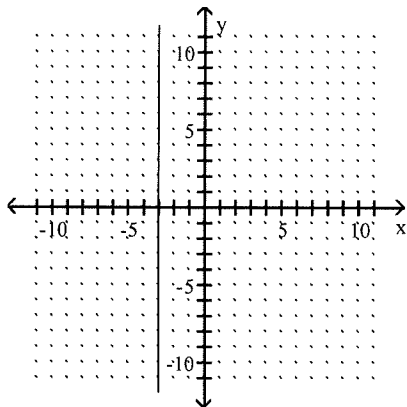
11) $-\frac{2}{5}$

12) Undefined

Answer Key

Testname: UNTITLED1

13)



14) Perpendicular

15) C

16) Parallel

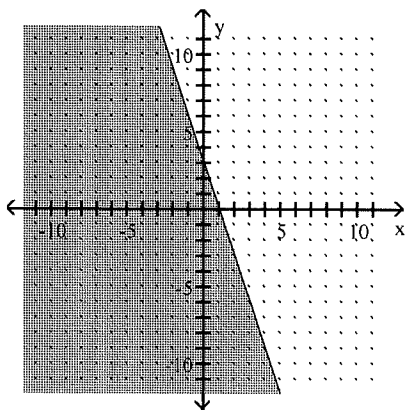
$$17) y = -\frac{2}{3}x + \frac{2}{5}$$

$$18) y = -\frac{1}{2}x - 8$$

$$19) y = \frac{4}{9}x - \frac{46}{9}$$

20) Linear

21)



$$22) y = -\frac{7}{6}x + 3$$

$$23) y = -8$$

$$24) x = -2$$

$$25) x = -10$$