

Use the given conditions to write an equation for the line in point-slope form.

11) Slope = 3, passing through $(-7, 8)$

A) $y - 8 = 3(x + 7)$

B) $y = 3x + 29$

C) $y + 8 = 3(x - 7)$

D) $x - 8 = 3(y + 7)$

Use the given conditions to write an equation for the line in slope-intercept form.

12) Slope = 2, passing through $(-6, 3)$

A) $y = 2x + 15$

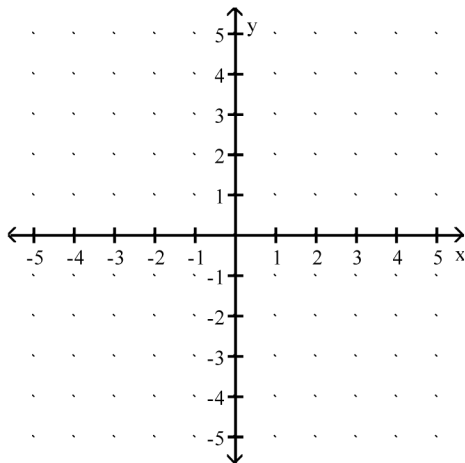
B) $y - 3 = x + 6$

C) $y = 2x - 15$

D) $y - 3 = 2x + 6$

Graph the equation in the rectangular coordinate system.

13) $f(x) = 3$



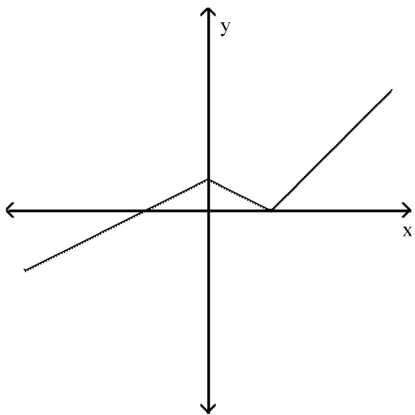
Solve for y to determine the slope and y -intercept of the line given by the equations.

14) $-\frac{1}{2}x + y - 4 = 0$

15) $12x - 6y - 36 = 0$

Use the vertical line test to determine whether or not the graph is a graph of a function of x .

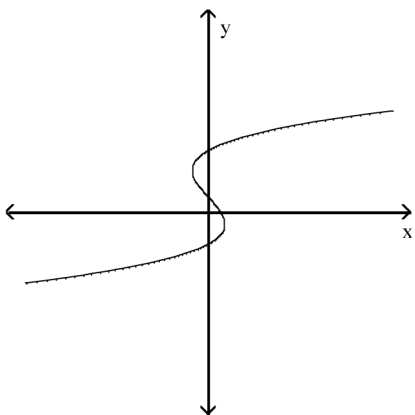
7)



A) function

B) not a function

8)



A) function

B) not a function

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

9) $(2, -3), (-7, 8)$

A) $\frac{11}{9}$

B) $-\frac{9}{11}$

C) -1

D) $-\frac{11}{9}$

10) $(7, -6), (-4, -18)$

A) $\frac{12}{11}$

B) $\frac{11}{12}$

C) $-\frac{12}{11}$

D) -8

Give the domain and range of the relation.

1) $\{(6, 7), (10, -8), (9, 6), (9, 2)\}$

Domain:

Range:

2) $\{(-6, -2), (10, -6), (9, -5), (9, 8)\}$

Domain:

Range:

Determine whether the relation is a function.

3) $\{(-2, -9), (3, -5), (6, 6), (8, 1), (11, 2)\}$

A) Function

B) Not a function

4) $\{(-6, -5), (-3, -7), (4, 6), (4, 8)\}$

A) Function

B) Not a function

5) $\{(-7, -8), (-7, -5), (2, 2), (4, -8), (10, 6)\}$

A) Function

B) Not a function

Evaluate the function at the given value of the independent variable and simplify.

6) $f(x) = 3x^2 - 3x - 4$; $f(x - 1)$