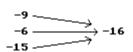
Is the following correspondence a function?



1) _____

2)



3) Domain: All students attending Laughlin Community College 3) ______ Correspondence: Each student's Social Security Number Range: A set of Social Security Numbers

4)

)		
	Name	Test Score
	Bob L.	91
(Susan H.	83
	Jim H.	76
_	Bruce B.	96

4) _____

For the given correspondence, write the domain and the range. Then determine whether the correspondence is a function.

1

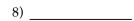
6)
$$\{(1, 9), (8, -6), (-8, -3), (6, 3), (-2, 0)\}$$

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

7) **f(-4)**



- 8) **f(2)**

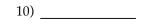


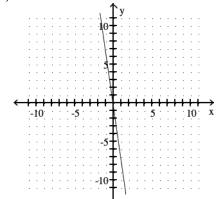
- A function of x is depicted in the graph. Find any input values that produce the indicated output.
 - 9) f(x) = 3



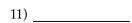
Determine whether the graph is the graph of a function.

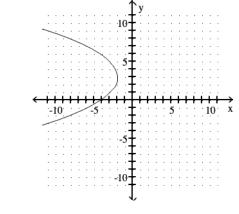
10)





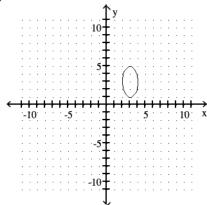
11)





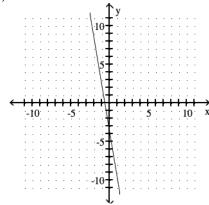
12)





13)





Find the function value.

14) Find
$$f(8)$$
 when $f(x) = -2x + 13$.

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

Solve the problem.

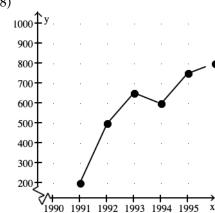
- 16) The function A described by $A(r) = 4\pi r^2$ gives the surface area of a sphere with radius r. Find the area when the radius is 8 in.
- 16) _____

17) The function F described by
$$F(C) = \frac{9}{5}C + 32$$
 gives the

Fahrenheit temperature corresponding to the Celsius temperature C. Find the Fahrenheit temperature equivalent to 20° C.

18)



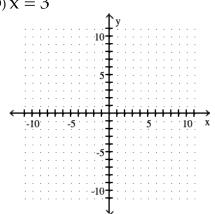


Crafty Bill's Cool Car Sales opened as a used car sales lot in 1991. The graph shows the number of cars sold as a function of time. What is the approximate number of cars sold in 1993?

Graph.

19)
$$x = 3$$

9) _____



Solve the problem.

20) The cost of a taxi ride in Happy Hollow is \$1.00 plus \$0.68 per mile. Formulate a model that can be used to determine the total cost, C(m), of a ride of m miles. Find the total cost of a ride of 15 miles.

20) _____

21) A gas station sells 4820 gallons of regular unleaded gasoline on a day when they charge \$1.35 per gallon, whereas they sell 3973 gallons on a day that they charge \$1.40 per gallon. Find a linear function that expresses gallons sold as a function of price.

Student Computer Services bought a computer for \$2764. The computer depreciates at a rate of \$35 per month. Formulate a model that can be used to determine the value, C(t), of the computer t months after purchase. Find the value of the computer after 25 months.	22)
Persons taking a 30-hour review course to prepare for a standardized exam average a score of 620 on that exam. Persons taking a 70-hour review course average a score of 758. Find a linear function, S(t), which fits this data, and which expresses score as a function of time. Use this function to predict an average score for persons taking a 48-hour review course. Round your answer to the tenths place.	23)
24) The total sales made by a salesperson was \$25,000 after 3 months and \$68,000 after 23 months. Predict the total sales after 38 months.	24)
Persons taking a 30-hour review course to prepare for a standardized exam average a score of 620 on that exam. Persons taking a 70-hour review course average a score of 752. Find a linear function S(t), which fits this data, and which expresses score as a function of time	25)