

___ 1) Given the relation $B = \{(-3,2) (9,4) (-2,10) (x, 5)\}$ Which of the following values for x will make relation B a function?

(1) 7

(2) 9

(3) -2

(4) -3

___ 2) The following relation is a function. $\{(10,12), (-5,3), (7,10), (8,6), (10,0)\}$

(1) true

(2) false

___ 3) Is the relation depicted in the chart below a function?

x	-3	-1	0	0	5	8
y	8	9	10	6	11	7

(1) yes

(2) no

___ 4) The following relation is a function? $\{(-4,12), (-2,3), (0,10), (2,6), (4,0)\}$

(1) true

(2) false

___ 5) Is the relation depicted in the chart below a function?

x	-6	1	3	5	3	9
y	5	5	5	5	5	5

(1) yes

(2) no

6) If the function $s(x)$ represents the number of full hours that it takes a person to assemble x pairs of sneakers in a factory, which would be an appropriate domain for the function?

(1) the set of rational numbers

(2) the set of negative numbers

(3) the set of integers

(4) the set of whole numbers

7) The function $p(x)$ represents the pay a car salesperson earns per week and is defined as \$200 plus \$1,000 for every car (x) he or she sells.

(a) Write a rule to represent this function in symbolic form:

(b) Tom and Jerry are arguing about what the appropriate range would be. Tom is saying the appropriate range would be the set of whole numbers and Jerry is saying the appropriate range should be real numbers. Who do you agree with? Explain why.

Name _____

Alg1 Q4 Quiz 1 Review

Quiz Friday: 4/5/19

April 3, 2019

Functions I

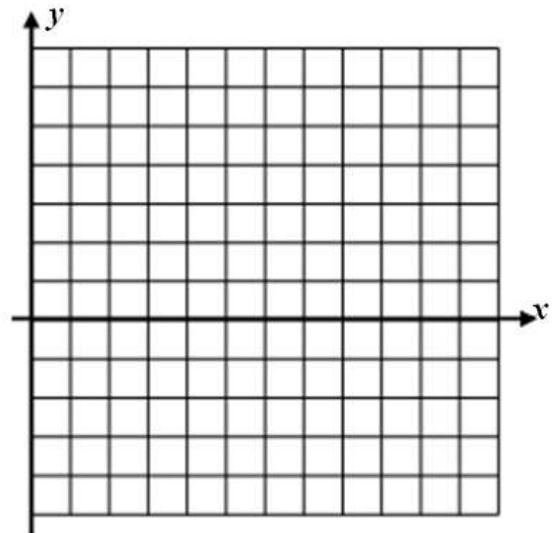
8) Consider the function rule: Multiply the input by -2 and then increase the product by 7 to get the output.

(a) Fill in the table for the inputs and outputs. Inputs are often designated by x and outputs by y .

Input x	Calculation	Output y
0		
1		
2		
3		

(b) Write an equation that gives this rule in symbolic form.

(c) Graph the function rule on the graph paper shown below. Use your table in part a to help.



9) A function rule takes an input, x , and converts it into an output, y , by decreasing double of the input by 19. Determine the output for this rule when the input is 55 and then write an equation for the rule in symbolic form.

10) A function rule takes an input, x , and converts it into an output, y , by increasing triple the input by 22. Write an equation for the rule in symbolic form. Determine the input for this rule when the output is -29.

Name _____

April 3, 2019

Alg1 Q4 Quiz 1 Review

Quiz Friday: 4/5/19

Functions I

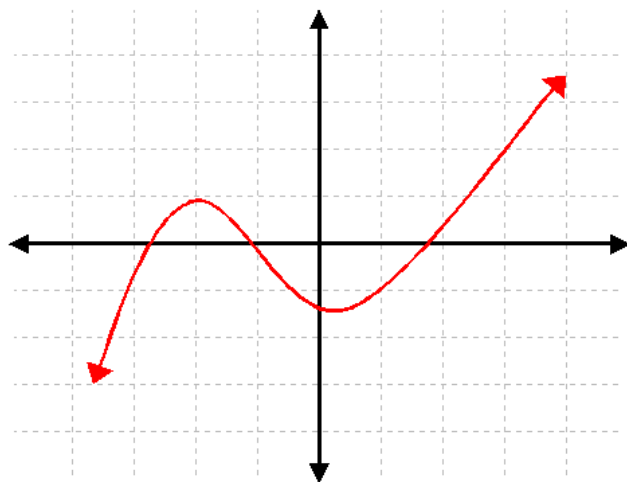
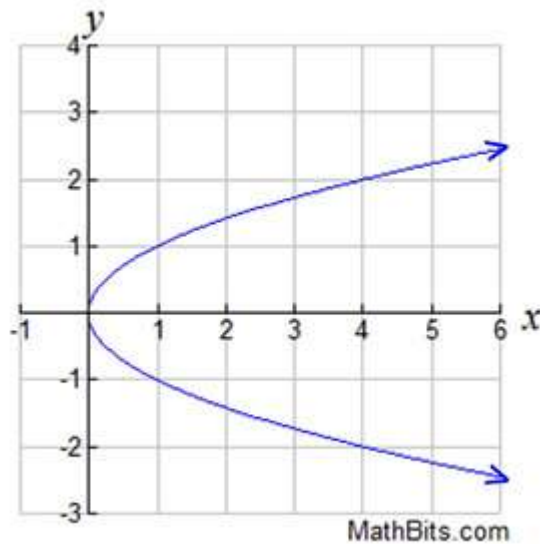
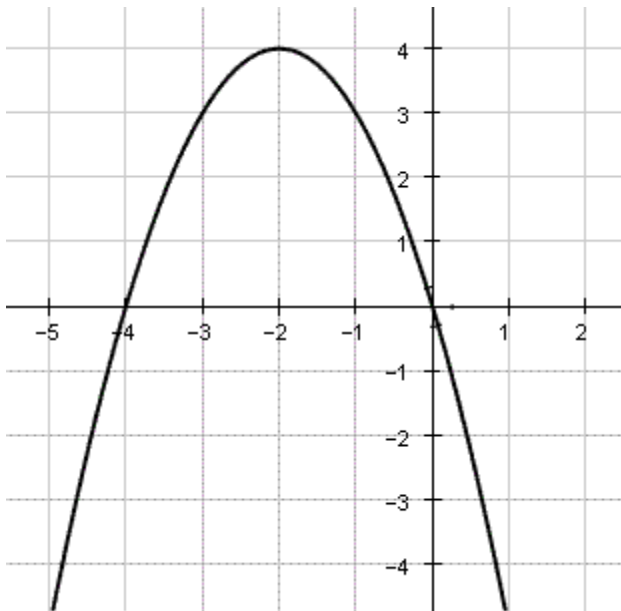
11) A function rule takes an input, x , and converts it into an output, y , by increasing quadruple of the input by 12. Determine the output for this rule when the input is 31 and then write an equation for the rule in symbolic form.

10) A function rule takes an input, x , and converts it into an output, y , by decreasing 6 times the input by 35. Write an equation for the rule in symbolic form. Determine the input for this rule when the output is 127.

11) A function rule takes an input, x , and converts it into an output, y , by decreasing one fourth of the input by 19. Determine the output for this rule when the input is 84 and then write an equation for the rule in symbolic form.

12) A function rule takes an input, x , and converts it into an output, y , by increasing one third the input by 22. Write an equation for the rule in symbolic form. Determine the input for this rule when the output is -178.

13) Determine whether each relation is a function:

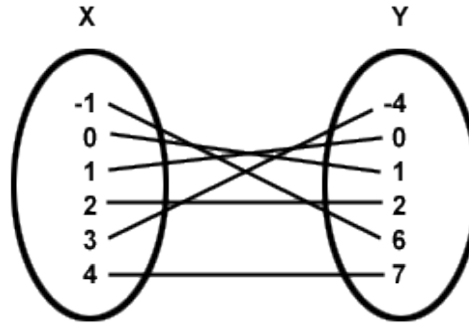
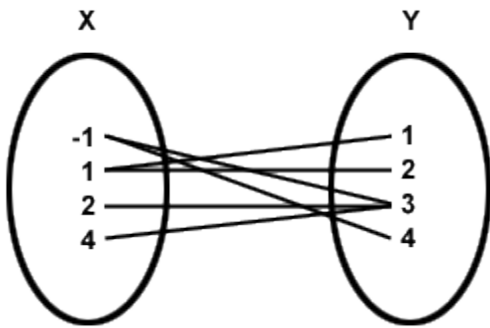


X	Y
2	7
3	5
4	2
4	3

X	Y
1	6
2	6
3	6
7	6

Relation

x	y
-2	5
-1	4
0	0
1	4
2	5



Input

Output

