

Algebra 1 Quick Quiz 10312022

Name.....

Periods.....

Choose the best answer for each question:

You may want to have your graphing calculator handy.

1. Which of the relations below is a function?

Choose:

- $\{(1,1), (2,1), (3,1), (4,1), (5,1)\}$
- $\{(2,1), (2,2), (2,3), (2,4), (2,5)\}$
- $\{(0,2), (0,3), (0,4), (0,5), (0,6)\}$



2. Given the relation $A = \{(5,2), (7,4), (9,10), (x, 5)\}$. Which of the following values for x will make relation A a function?

Choose:

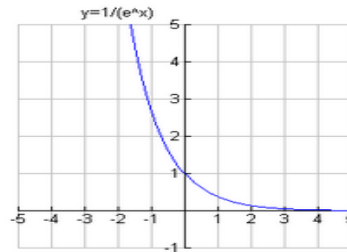
- 7
- 9
- 4



3. The graph of a relation is shown at the right. Is this relation a function?

Choose:

- Yes
- No
- Cannot be determined from a graph



4.

Is the relation depicted in the chart below a function?



X	0	1	3	5	3	9
Y	8	9	10	6	10	7

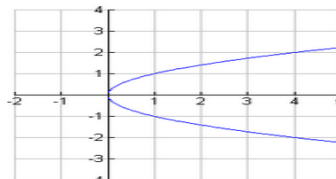
Choose:

- Yes
- No
- Cannot be determined from a chart

5. The graph of a relation is shown at the right. Is the relation is a function?

Choose:

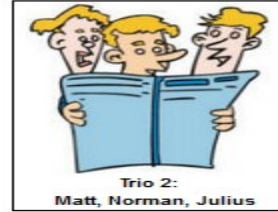
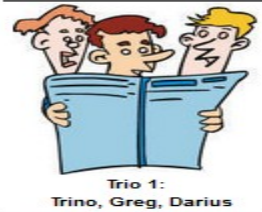
- Yes
- No
- Cannot be determined from a graph



6. Examine the singers at the right.

A relation can be described as:
 $(x, y) = (\text{boy's name}, \text{hair color})$

or described as:
 $(x, y) = (\text{hair color}, \text{boy's name})$



For which of the trios will BOTH relations described above be functions?

Choose:

- Trio 1
- Trio 2
- Both trios

8. Given $f(x) = 3x + 7$, find $f(5)$.

Choose:

- 15
- 22
- 42



9. Given $f(x) = 2x^2 - 3x + 6$, find $f(2.5)$.

Choose:

- 11
- 23.5
- 76



10. Given $g(a) = 2a - 4$, find $g(5x)$.

Choose:

- 6
- $5x - 4$
- $10x - 4$



16. Use functional notation to describe the function displayed at the right.

Choose:

- $f(x) = 2x$
- $f(x) = x^2$
- $f(x) = x + 2$



x	y
-3	9
-2	4
-1	1
0	0
1	1
2	4
3	9