Algebra Quick Quiz10102023

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:
 - \bigcirc {(1,1), (2,1), (3,1), (4,1), (5,1)}
 - \bigcirc {(2,1), (2,2), (2,3), (2,4), (2,5)}
 - O {(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:

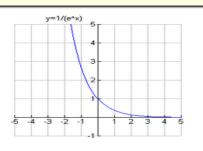
- 07
- 09
- 0 4

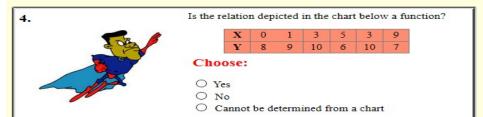


3. The graph of a relation is shown at the right. Is this relation a function?

Choose:

- O Yes
- \bigcirc No
- O Cannot be determined from a graph

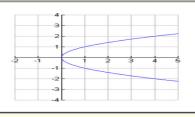




- 5. The graph of a relation is shown at the right. Is the relation is a function?

Choose:

- O Yes
- O No
- O Cannot be determined from a graph



6.

Examine the singers at the right.

A relation can be described as: (x, y) = (boy's name, hair color)

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



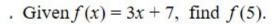


For which of the trios will BOTH relations described above be functions?

Choose:

- O Trio 1
- O Trio 2
- O Both trios

7



Choose:

- 0 15
- 0 22
- 0 42



8

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

Choose:

$$\bigcirc f(x) = 2x$$

$$\bigcirc f(x) = x^2$$

$$\bigcirc f(x) = x + 2$$



-	~	,
	-3	9
	-2	4
	-1	1
	0	0
	1	1
	2	4
	3	9

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

Choose:

- 0 11
- 023.5
- 0 76



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

Choose:

- 06
- \bigcirc 5x 4
- 0.10x 4



11. Bonus

Which graph represents the solution set for $\frac{1}{2} - \frac{2}{3}x < \frac{5}{6}$?