

Algebra 2

Unit: Linear and Quadratic Functions

Section: Functions and Relations

Multiple Choice: Inverse and Function Notation

Directions: Answer each question on inverses and function notation below and then check your answers below.

1. Find the inverse of $\{(-5, 6), (-3, 0), (1, 8), (3, 10)\}$.

- a. $\{(6, -5), (0, -3), (1, 8), (3, 10)\}$
- b. $\{(-3, -5), (8, 3), (10, 6)\}$
- c. $\{(6, -5), (0, -3), (8, 1), (10, 3)\}$
- d. $\{(-5, 6), (0, -3), (1, 8), (10, 3)\}$

2. What test do you conduct to find out if an inverse of a function is also a function?

- a. The horizontal line test.
- b. The vertical line test.
- c. The zero test.
- d. The function test.

3. Find the inverse of f of x equals negative $2x$ plus 6

- a. The inverse of f of x equals x divided by 2 minus 3 .
- b. The inverse of f of x equals negative x divided by 2 plus 3 .
- c. The inverse of f of x equals $2x$ minus 6 .
- d. The inverse of f of x equals $6x$ minus 2 .

4. Find the inverse of f of x equals $4x$ minus 5 .

- a. The inverse of f of x equals negative $5x$ plus 4 .
- b. The inverse of f of x equals $5x$ minus 4 .
- c. The inverse of f of x equals x divided by 4 minus five fourths.
- d. The inverse of f of x equals x divided by 4 plus five fourths.

5. Find the inverse of f of x equals negative x plus 7 .

- a. The inverse of f of x equals negative x plus 7 .
- b. The inverse of f of x equals negative $7x$ plus 1 .
- c. The inverse of f of x equals x minus 7 .
- d. The inverse of f of x equals negative x plus negative 7 .

Answers:

- 1. c
- 2. a
- 3. b
- 4. d
- 5. a