

Algebra II
Chapter 2 Functions Test Review

Key

1. Draw a graph and a table that do not represent a function. How would you explain this?

2. Find the domain of $f(x) = \frac{x-3}{x^2-9}$.
 $\frac{x-3}{(x-3)(x+3)} \rightarrow \frac{1}{x+3}$
 $x \neq -3$

3. Find the domain of the function $f(x) = 3x^2 - 4x + 4$.
 $(-\infty, \infty)$

4. Given a graph $f(x) = |x|$, what would be the equation of another graph with a vertical shift of 3 up, a horizontal shift of 5 left, and a vertical stretch of 10?

$$f(x) = |x| + 3$$

5. If $f(x) = 4x + 6$ and $g(x) = x^2 - 5$, find $(f \circ g)(x)$.

$$f(g(x)) =$$

$$4(x^2 - 5) + 6$$

$$4x^2 - 20 + 6$$

$$4x^2 - 14$$

6. Find $f \circ g$ for the given functions.
 $f(x) = \begin{cases} 3x, & x \leq 4 \\ 2x + 4, & x > 4 \end{cases}$
 $g(x) = \begin{cases} 2x + 4, & x \leq 4 \\ 3x, & x > 4 \end{cases}$

$$f(g(x)) = \begin{cases} 3(2x+4), & 2x+4 \leq 4 \\ 2(2x+4)+4, & 2x+4 > 4 \end{cases}$$

$$\text{check bottom function}$$

$$4x + 12 \leq 4$$

7. Find $(f \circ g)(x)$ if $f(x) = 4x + 2$ and $g(x) = 2x^2 + 1$.

$$f(g(x)) = 4(2x^2 + 1) + 2$$

$$8x^2 + 4 + 2$$

$$8x^2 + 6$$

8. Find $(f \circ g)(x)$ if $f(x) = x^2 + 4$ and $g(x) = 4x + 3$.

$$f(g(x)) = (4x+3)^2 + 4 = 16x^2 + 24x + 9 + 4 = 16x^2 + 24x + 13$$

9. Given the function $f(x) = 3x + 4x^2 + 7$, explain how this function was transformed from the function $f(x) = x^2$.

$$\begin{aligned} & \text{stretch} \\ & \text{left} \\ & + 7 \end{aligned}$$

10. If you were given a function $g(x)$, explain how this function would be transformed if a new function was $p(x) = \frac{1}{2}g(x - 3) + 4$.

$$\text{vertical stretch} \quad \text{right 3} \quad \text{up 4}$$

Algebra 2 E2020 Exam Answers

Reza Nazari, Ava Ross



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