

Key

Algebra II
Chapter 2 Transformations Test Review

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

1	1
2	2
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2. Find the domain of $f(x) = \sqrt{x+3}$.
 $\sqrt{x+3} \geq 0$
 $x+3 \geq 0$
 $x \geq -3$
3. Find the domain of the function $f(x) = 3x^2 - 4x + 4$.
 $x \in \mathbb{R}$
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?
 $f(x) = 10|x+5| + 3$

5. If $f(x) = 4x + 6$ and $g(x) = x^2 - 3$, find $(f \circ g)(x)$ and $(g \circ f)(x)$.
 $(f \circ g)(x) = 4(x^2 - 3) + 6 = 4x^2 - 12 + 6 = 4x^2 - 6$
 $(g \circ f)(x) = (4x + 6)^2 - 3 = 16x^2 + 48x + 36 - 3 = 16x^2 + 48x + 33$

6. Find $f^{-1}(x)$ for the given function.
 $f(x) = \frac{1}{2}x + 3$
 $y = \frac{1}{2}x + 3$
 $y - 3 = \frac{1}{2}x$
 $2(y - 3) = x$
 $x = 2y - 6$
 $f^{-1}(x) = 2x - 6$

7. Find $(f \circ g)(x)$ if $f(x) = 4x + 2$ and $g(x) = 3x^2 + 1$.
 $(f \circ g)(x) = 4(3x^2 + 1) + 2 = 12x^2 + 4 + 2 = 12x^2 + 6$

8. Find $(f \circ g)(x)$ if $f(x) = x^2 + 4$ and $g(x) = 4x + 3$.
 $(f \circ g)(x) = (4x + 3)^2 + 4 = 16x^2 + 24x + 9 + 4 = 16x^2 + 24x + 13$

9. Given the function $f(x) = 3x + 4x^2 + 7$, explain how this function was transformed from the function $f(x) = x^2$.
 The function $f(x) = 3x + 4x^2 + 7$ is a parabola opening upwards with vertex at $(-0.375, 7.125)$. It is a vertical stretch by a factor of 4, a horizontal shift to the left by 0.375 units, and a vertical shift up by 7 units.

10. If you were given a function $g(x)$, explain how this function would be transformed if a new function was $f(x) = \frac{1}{2}g(x - 3) + 8$.
 The function $f(x) = \frac{1}{2}g(x - 3) + 8$ is a vertical compression by a factor of 0.5, a horizontal shift to the right by 3 units, and a vertical shift up by 8 units.

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Didier Musso



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