

# QUADRATIC-SQUARE ROOT INVERSE FUNCTIONS

## Quadratic-Square Root Relationship

Lesson 1

### Domain Restrictions

Key Concepts

Interchange the  $x$ -values (inputs) and  $y$ -values (outputs). This results in inverse functions also interchanging.

The \_\_\_\_\_ of the original function becomes the \_\_\_\_\_ of the inverse function.

The \_\_\_\_\_ of the original function becomes the \_\_\_\_\_ of the inverse function.

\_\_\_\_\_ may be used to ensure that the original function and its inverse are, in fact, inverses.

Example 1 Find the inverse of  $f(x) = x^2 + 5$ ,  $x \geq 0$ . Graph the function and its inverse on the same grid.

Original Function:  $f(x) = x^2 + 5$ ,  $x \geq 0$

Inverse on  $y = f(x)$

Switch  $x$  and  $y$

Solve for  $y$

Inverse in function notation

## Quadratic-Square Root Relationship

practice 2

Problems 1-12 Find the inverse of  $f$  algebraically, including domain restrictions where necessary. Graph the function and its inverse on the same grid. Show the domain and range of the function and its inverse.

$f(x) = (x - 8)^2$ , $x \geq 8$	$f(x) = 2\sqrt{x}$	$f(x) = x^2 - 6$ , $x \geq 0$
1. Inverse	4. Inverse	8. Inverse
2. Graph	5. Graph	9. Graph
3. Domain of $y$	6. Domain of $y$	10. Domain of $y$

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# Lesson 15 Square Root Functions Practice B

**Rod Powers**



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Christopher Black Greenwich CT is the founder of College Hill Coaching. Mark Anestis Middletown CT is an exam tutor and the author of 5 Steps to a 5 AP Biology.

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