ALGEBRA 2 · CLASSWORK · SPECIAL ED

Find an Equation of an Inverse Function

SCORE / 25

01 Part A · Practice

Write $y = f(x)$, switch x and y, solve for y; the domain of f^{-1} is the range of f.

EXAMPLE

Find f^{-1} for $f(x) = \sqrt{x - 3}$.

1. Swap: $x = \sqrt{y - 3}$.
2. Square: $x^2 = y - 3$, so $y = x^2 + 3$.
3. Range of f is $y \geq 0$, so $f^{-1}(x) = x^2 + 3$, $x \geq 0$.

WORDS TO KNOW

inverse function	undoes f
f^{-1}	read "f inverse" (not 1/f)
range	all outputs of f

1 ●○○ For $f(x) = 3 - 6x$, find $f^{-1}(-3)$.

HINT $f^{-1}(c)$ is the input that gives output c: solve $f(x) = c$.

2 ●○○ Find $f^{-1}(x)$ for $f(x) = 6x + 9$.

HINT Write y = f(x), switch x and y, solve for y.

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Preview - the full worksheet and its answer key are at primeworksheet.com