ALGEBRA 2 · HOMEWORK · 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.

1 ●○○

Find $f^{-1}(x)$ for $f(x) = 4x + 1$.

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

2 ●○○

Find $f^{-1}(x)$ for $f(x) = 3x + 8$.

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

3 ●○○

Find $f^{-1}(x)$ for $f(x) = \sqrt{x + 5}$, and state its domain.

HINT Swap x and y, isolate the root, square both sides. The inverse domain is the range of f.

4 ●○○

For $f(x) = -4x$, find $f^{-1}(-8)$.

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

5 ●○○

Find $f^{-1}(x)$ for $f(x) = (x - 6)^3 + 1$.

HINT Swap x and y; undo the steps in reverse order.

6 ●○○

Find $f^{-1}(x)$ for $f(x) = (x - 6)^3 - 5$.

HINT Swap x and y; undo the steps in reverse order.

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