

Verifying Radical Inverses

Example 1: Verify that $f(x)$ and $g(x)$ are inverses. $f(x) = -2x^5$, $g(x) = \sqrt[5]{-\frac{x}{2}}$

Finding Radical Inverses

Find the inverses of the following functions.

Then, find the domain and range of the original and inverse.

Ex. 2 $f(x) = -2\sqrt[3]{x-3}$

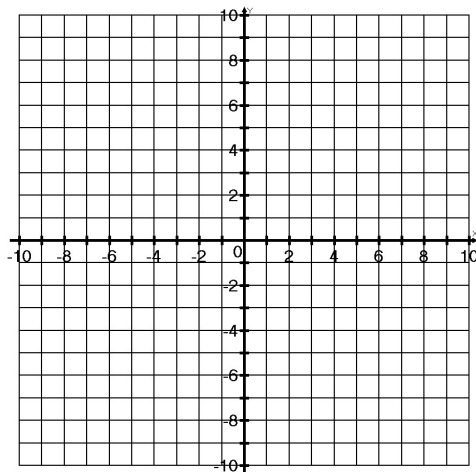
Ex. 3 $f(x) = \sqrt{6-2x} + 1$

Graphing Inverses:

Ex. 4 Graph the original radical function and find the domain and range.

Then, find the inverse, graph it, and find the inverse domain and range.

$$f(x) = \sqrt{6-2x} + 1$$



Verifying Radical Inverses

Example 1: Verify that $f(x)$ and $g(x)$ are inverses. $f(x) = -2x^5$, $g(x) = \sqrt[5]{-\frac{x}{2}}$

Finding Radical Inverses

Find the inverses of the following functions.

Then, find the domain and range of the original and inverse.

Ex. 2 $f(x) = -2\sqrt[3]{x-3}$

Ex. 3 $f(x) = \sqrt{6-2x} + 1$

Graphing Inverses:

Ex. 4 Graph the original radical function and find the domain and range.

Then, find the inverse, graph it, and find the inverse domain and range.

$$f(x) = \sqrt{6-2x} + 1$$

