

Topic 25: Find the inverse of a function, verifying

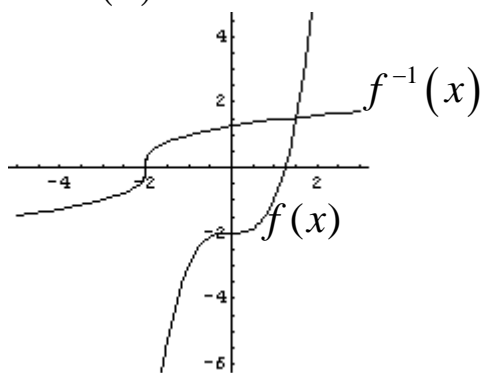
1. Given $f(x) = x^3 - 2$, find $f^{-1}(x)$. Graph both functions.

2. Given $f(x) = (x - 3)^2$, $x \geq 3$, find $f^{-1}(x)$.

3. Given $f(x) = \frac{1}{x+3}$, find $f^{-1}(x)$.

Answers

1. $f^{-1}(x) = \sqrt[3]{x+2}$



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

3. $f^{-1}(x) = \frac{1-3x}{x}$