Inverse Functions and Their Solutions

Today's Standard

HSF.BF.B4a - Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse. For example, $f(x) = 2x^3$ or f(x) = (x+1)/(x-1) for $x \neq 1$.

Cues	Notes
Inverse Function	An inverse function reverses the operations of the original function.
One-to-One Function	Only one-to-one functions have inverses.
Algebraic Manipulation	Algebraic manipulation is used to solve for the inverse function.
Graphing Functions	Graphing can help visualize the relationship between a function and its inverse.

Summary

Understanding inverse functions involves recognizing one-to-one functions, using algebraic manipulation to find inverses, and graphing to visualize these concepts.