Reading Inverse Functions

Today's Standard

HSF.BF.B4c - (+) Read values of an inverse function from a graph or a table, given that the function has an inverse.

Cues	Notes
Inverse function	Inverse function: A function that 'reverses' another function.
Horizontal line test	Horizontal line test: A test to determine if a function has an inverse by checking if any horizontal line intersects the graph more than once.
Graph reflection	Graph reflection: The graph of an inverse function is a reflection of the original function over the line y = x.
One-to-one function	One-to-one function: A function where each output is mapped from a unique input, necessary for an inverse to exist.
Table interpretation	Table interpretation: Reading values from a table to find corresponding values in the inverse function.

Summary

Understanding inverse functions involves recognizing that not all functions have inverses. Key concepts include the horizontal line test, graph reflection, and interpreting tables. Mastery of these ideas prepares students for advanced mathematical analysis.