Graphing Complex Functions

Today's Standard

HSF.IF.C7b - Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.

Cues	Notes
Square root function	Square root function: Non-linear, curved shape, domain is non-negative numbers.
Cube root function	Cube root function: Symmetric about the origin, can take any real number as input.
Piecewise-defined function	Piecewise-defined function: Defined by multiple sub-functions, each applying to a specific interval.
Step function	Step function: A type of piecewise function that jumps from one value to another.
Absolute value function	Absolute value function: V-shaped graph, reflects negative inputs to positive outputs.

Summary

Understanding and graphing complex functions such as square root, cube root, piecewise-defined, step, and absolute value functions is essential for interpreting real-world data and preparing for advanced mathematical studies.