

Function Algebra Lesson Objectives

Domain and Range of a Function Lesson

Use set builder and interval notation to represent ranges of numbers

Determine the domain of a function from its algebraic expression

Determine the domain and range of a function from its graph

Algebra of Functions Lesson

Compute, graph, and interpret the sum, difference, product, and quotient of two functions

Determine the domain of the sum, difference, product, and quotient of two functions

Composition of Functions Lesson

Compute and interpret the composition of two functions

Find the domain of the composition of functions

Inverse Functions Lesson

Identify one-to-one functions using the horizontal line test or the equation

Find the inverse of a function

Determine the domain and range of a function and its inverse

Verifying Inverse Functions Lesson

Determine if two functions are inverses of one another algebraically

Graphs of Inverse Functions Lesson

Determine the graph of the inverse function by observing the graph of a one-to-one function

Restrict a function's domain to find its inverse function