

# Function of several real variables

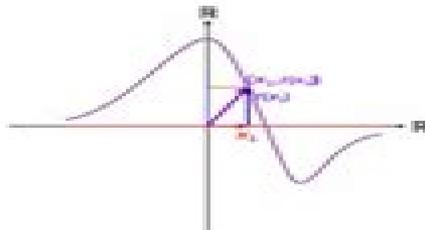
Function	
$x \mapsto f(x)$	
By domain and codomain	
$\mathbb{I} \longrightarrow \mathbb{B}$ $\mathbb{B}^n \longrightarrow \mathbb{B}$ $\mathbb{I} \longrightarrow \mathbb{Z} \longrightarrow \mathbb{I}$ $\mathbb{I} \longrightarrow \mathbb{R} \longrightarrow \mathbb{I}$ $\mathbb{R}^n \longrightarrow \mathbb{I}$ $\mathbb{I} \longrightarrow \mathbb{C} \longrightarrow \mathbb{I}$ $\mathbb{C}^n \longrightarrow \mathbb{I}$	
Classes/properties	
Constant · Identity · Linear · Polynomial · Rational · Algebraic · Analytic · Smooth · Continuous · Measurable	
Constructions	
Restriction · Composition · $\lambda$ · Inverse	
Generalizations	
Partial · Multivalued · Implicit	

*"Real multivariate function", "real multivariable function", and "several real variables", all redirect to here.*

In mathematical analysis, and applications in geometry, applied mathematics, engineering, and natural sciences, a **function of several real variables** extends the idea of a function of a real variable to several variables, that is, the "input" variables may take real values. The "output", also called the "value of the function", may be real or complex. However, the study of the complex valued functions may be easily reduced the study of the real valued functions, by considering the real and imaginary parts of the complex function; therefore, unless explicitly specified, only real valued functions will be considered in this article.

The domain of a function of several variables is the subset of  $\mathbb{I}^n$  for which the function is defined. As usual, the domain of a function of several real variables is supposed to contain a open subset of  $\mathbb{I}^n$ .

## General definition



$n = 1$

# Functions Of Several Real Variables

**WJ Hussar**



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