

# Functions

Fractals

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## 1 Introduction

### 1.1 Defintions

**Defintion 1.1.** A function  $f$  from a set  $X$  to a set  $Y$  is a relation that assigns to each element in set  $X$  exactly one element in set  $Y$ .

**Defintion 1.2.** The domain is the set of  $X$  (a.k.a. the input).

**Defintion 1.3.** The range is the subset of  $Y$  (a.k.a. the output).