

Miscellaneous

Paolo Bettelini

Contents

1	Abstract	2
2	Functions and sets	2
2.1	Surjectivity	2
2.2	I	2

1 Abstract

This is a place with random notes and stuff I have yet to put in its place.

2 Functions and sets

2.1 Surjectivity

A function $f : D_f \rightarrow I_f$ is said to be **surjective** if

$$\forall y \in I_f, \exists x \in D_f | f(x) = y$$

2.2 Injectivity

A function $f : D_f \rightarrow I_f$ is said to be **injective** if

$$\forall x_1, x_2 \in D_f, f(x_1) = f(x_2) \Rightarrow x_1 = x_2$$

2.3 Bijectivity

A function is said to be **bijective** iff it's both injective and surjective.