

Handwritten Notes

Chapter 1

Topic	Definition	Example	Notes
1.1.1.1	Definition of a set	$\{1, 2, 3\}$	Finite set
1.1.1.2	Definition of a subset	$\{1, 2\} \subseteq \{1, 2, 3\}$	Proper subset
1.1.1.3	Definition of a power set	2^S	Includes empty set
1.1.1.4	Definition of a Cartesian product	$S \times T$	Ordered pairs
1.1.1.5	Definition of a function	$f: S \rightarrow T$	Maps elements of S to elements of T
1.1.1.6	Definition of an injective function	$f(x) = 2x$	One-to-one
1.1.1.7	Definition of a surjective function	$f(x) = x^2$	Onto
1.1.1.8	Definition of a bijective function	$f(x) = x + 1$	One-to-one and onto
1.1.1.9	Definition of an inverse function	f^{-1}	Exists only for bijective functions
1.1.1.10	Definition of a composition of functions	$f \circ g$	Order matters
1.1.1.11	Definition of a restriction of a function	$f _S$	Domain is restricted
1.1.1.12	Definition of a projection	π_1	Maps to first component
1.1.1.13	Definition of an inclusion map	i_S	Maps S into a larger set
1.1.1.14	Definition of a constant function	$f(x) = c$	Maps all elements to the same value
1.1.1.15	Definition of an identity function	$f(x) = x$	Maps each element to itself

Chapter 2

Topic	Definition	Example	Notes
2.1.1.1	Definition of a group	$(\mathbb{Z}, +)$	Abelian group
2.1.1.2	Definition of a subgroup	$2\mathbb{Z}$	Subgroup of \mathbb{Z}
2.1.1.3	Definition of a normal subgroup	$\{e\}$	Trivial normal subgroup
2.1.1.4	Definition of a quotient group	$\mathbb{Z}/2\mathbb{Z}$	Isomorphic to \mathbb{Z}_2
2.1.1.5	Definition of a homomorphism	$f(x) = 2x$	Preserves group structure
2.1.1.6	Definition of an isomorphism	$f(x) = x + 1$	Structure-preserving bijection
2.1.1.7	Definition of an automorphism	$f(x) = -x$	Isomorphism from a group to itself
2.1.1.8	Definition of a direct product	$\mathbb{Z} \times \mathbb{Z}$	Component-wise operations
2.1.1.9	Definition of a direct sum	$\mathbb{Z} \oplus \mathbb{Z}$	Similar to direct product
2.1.1.10	Definition of a semigroup	$(\mathbb{N}, +)$	Monoid without identity
2.1.1.11	Definition of a monoid	$(\mathbb{N}, +, 0)$	Semigroup with identity
2.1.1.12	Definition of a ring	$(\mathbb{Z}, +, \cdot)$	Commutative ring with identity
2.1.1.13	Definition of a field	\mathbb{Q}	Commutative ring with multiplicative inverse
2.1.1.14	Definition of a vector space	\mathbb{R}^n	Module over a field
2.1.1.15	Definition of a linear map	$f(x) = 2x$	Linear transformation

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