List of Symbols

Abbreviations

- A Algorithm
- C Corollary
- D Definition
- E Example
- EPf End of proof
- F Fact
- L Lemma
- LS Left side
- RS Right side
- N Notation
- OM Order matters
- OM Order does not matter
- P Proposition
- Pf Proof
- Q Question
- RA Repetition allowed
- RA Repetition is not allowed
- S Specification
- SPf Start of proof
- T Theorem
- W Witness
- HW Homework

Special Sets

- \mathbb{N} The set of natural numbers starting at 0
- \mathbb{Z} The set of whole numbers
- The set of rational numbers
- \mathbb{R} The set of real numbers
- \mathbb{C} The set of complex numbers

Logic and Set Theory

- = is equal
- \neq is not equal to
- T Truth
- ¬ not
- Λ and
- V or
- ⇒ implies
- ⇔ if and only if, implies and is implied by
- \exists for some, there exists some
- ∄ for no, there does not exist any
- ∀ for every
- ∈ is in, is contained in, belongs to
- ∉ is not in, is not contained in, does not belong to
- \subseteq is included in, is a subset of
- $\not\sqsubseteq$ is not included in, is not a subset of
- {} the empty set

- U Union
- ∩ Intersection
- \ Without (Relative complementation)
- ⊓,× Cartesian Product
- ⊔ Coproduct
- \sim , ≈ is equivalent to
- \cong is isomorphic to
- ∵ Since, because
- : Hence, therefore