Notation

Logical Symbols

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\mathbb T is read as "True" \mathbb F is read as "False" \neg is read as "not" \wedge is read as "logical and" == is read as "is equal to" : is read as "satisfying the condition" \Omega is read as "the Univeral Set" \varnothing is read as "the Empty Set" a_i often denotes a "boolean statement" b_i often denotes a "boolean statement"
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Set Theory Symbols

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S denotes a "set" \in is read as "in" s often denotes an element (can be replaced with any lowercase symbol) \exists is read as "there exists" \not\equiv is read as "there does not exist" \forall is read as "for all" \cup is read as "union" (sometimes read as "and") \cap is read as "and" (sometimes used as shorthand for \cap is read as "intersection" \circ is read as "element \circ sub \circ in set \circ"
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Function Symbols

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x_i denotes "inputs" y_i denotes "outputs" f[x_1,x_2,...x_n] \to y_1,y_2,...y_n is read as "function f with inputs x_1,x_2,...x_n outputs y_1,y_2,...y_n"
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Computation Symbols

 \leftarrow is read as "assignment"

Mathematical Symbols

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= is read as "equals"
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+ is read as "plus"

⊥ is read as "orthogonal"