Discrete Math

Condensed Notes

July 27, 2021

Chapter 1

Propositional Logic

1.1 Atomic Things

- $\vee \rightarrow +$
- $\wedge \rightarrow *$
- $P \implies Q$ is same as $\neg P + Q$
- disjunctive is SOP conjunctive is POS (*dispos nahi hoga*)
- and is product(AP) or is sum(OS)
- for implication to be tautology
  - left side should be capable of assuming F
  - left as well as right side should be capable of assuming T simultaneously
- max-term is sum min-term is product
- implication is right associative
- $A.\neg B + B \equiv A + B$