

Mathematics For Computing

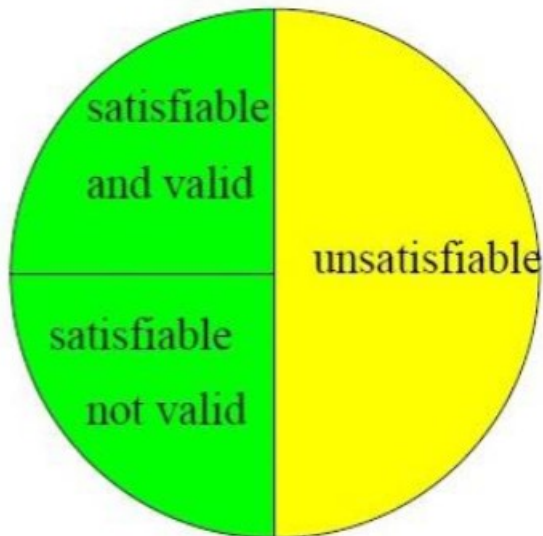
Revision for ICT 1

Week 5

Logic: Boolean & Truth Tables

- ▶ Language of Propositional Logic
- ▶ Well formed Formulae (wff)
- ▶ Truth conditions
- ▶ Truth table construction
- ▶ Reasoning based on Boolean(KB)
- ▶ Logical consequence

Classification of formulae



Sets, Relations, and Graphs

1. Sets
2. Intervals
3. Relations
 - ▶ Reflexive
 - ▶ Symmetric
 - ▶ Transitive
 - ▶ Equivalence
4. Functions
5. Graphs and Trees