EGC220 Class Notes 2/24/2023

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Test 1:

Number systems

- Convert any base to any base
- Quick conversion between base 2, 4, 8, and 16
- Add, subtract, multiply in any base
- Logic gate implementation of a Boolean function
- Boolean properties and laws
- Simplification of Boolean algebra using Boolean laws
- Representing Boolean functions in terms of
 - Sum of min-terms, product of max-terms, standard sum of products, standard product of sums, minimum sum of products, minimum product of sums
 - Representing Boolean functions using all NAND or NOR gates.
- Simplification using K-map (up to 5 variables)
 - SOP, POS, Standard SOP and POS, Min. SOP and POS
 - Design of combinational circuits



















