

Brandon Szeto  
PID: A17002478  
CSE 140L Fall 2022  
Professor Eldon, John

## CSE 140 Cheat Sheet

**Minterm:** A product involving all of the inputs to the function.

**Maxterm:** A sum involving all of the inputs to the function.

**Product of Sums (POS):** Each row of a truth table is associated with a minterm that is TRUE for that row.

**Sum of Products (SOP):** Each row of a truth table corresponds to a maxterm that is FALSE for that row.

## Midterm 1

Binary Arithmetic Chapter 1: One of the four problems:

- How many bits it takes to do certain operations and hold certain values
- How to do basic binary arithmetic
- Two's complement unsigned

Other three problems:

- K-maps
- Shannon expansion
- Boolean expressions, minterms, maxterms
- Prime implicants, essential prime implicants