Homework 1

CSE 232

March 2021

- 1. (30 points) Simplify the following function by using boolean algebra $F(x,y,z)=xy+x^{\prime}z+yz.$
- 2. (30 points) Derive that (x+y)(y'+z)(y+z)=(x+y)(x'+z) by using boolean algebra.
- 3. (a) (30 points) Express the following function in sum of minterms and product of maxterms by using truth table F(A, B, C, D) = B'D + A'D + BD.
 - (b) (10 points) Simplify the standard expression F(A, B, C, D) = B'D + A'D + BD.