

## CMSC 130: Laboratory Exercise #4: SIMPLIFICATION OF LOGIC CIRCUITS

**Instructions:** Simplify the following boolean functions using a) K-map and b) Quine- McCluskey method.

1.  $F(a,b,c) = a'b'c' + a'b'c + a'bc' + ab'c' + ab'c$

2.  $F(w,x,y,z) = \Sigma(0,2,4,6,7,10,13,15)$  and  $D(w,x,y,z) = \Sigma(3,11)$