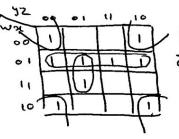
مناردین بعد، ۱۳۰۳ میل ۱۳۰۸ مترین سرس، ستیردیشال

#1

d) F(w,x,y,z) = \(\int(0,2,4,5,6,7,8,10,13)\)

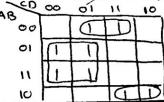


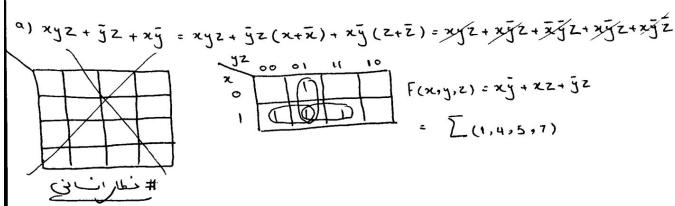
F(ω, x, y, z) = ωx + x Z + x y z

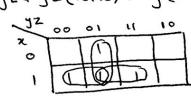
+ wzyz+wzyz+ wzyz+ wzyz

=> F(w,x,y,z)= yz + wy + wz + xy

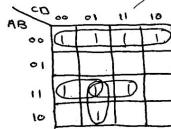
f) BD+ ABC + ABC + ABC = BD (A+A)(C+E)+ ABC (D+D)+ ABC (D+D)+ABC (D+D)
= ABC D+ ABC D







b) ACD+ ABC+ ABO+ AB = ACO (B+B)+ ABC (D+D)+ ABD (C+C)+ AB (C+C)(D+D) = ABZD + ABZD +



 $F(\omega,x,y,z) = \sum (1,3,4,5,7,8,10,11,13,15)$ 72 01 11

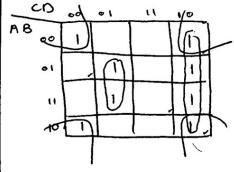
non-essential: wyz, wzy, xz

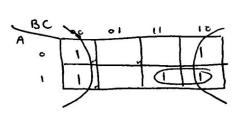
essential: WZ, WXY, WXZ

=> F(w,x,y,z) = Wz + Wxy+ wxz + (wyz or wxy or

#4

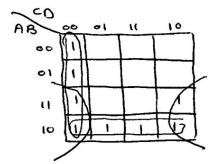
#3



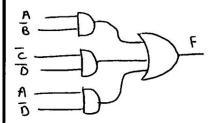


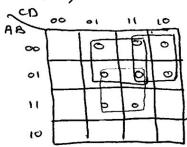
#5

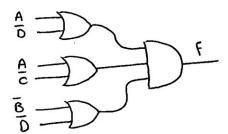
F(A,B,c,n). \(\sum_{(0,4,8,9,10,11,12,14)}\)



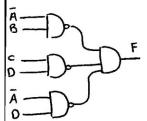
F(A,B,C,D) = AB + CD + AD



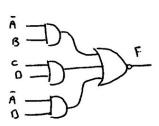




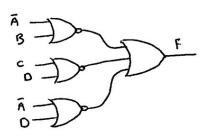
a) NAND-AND



b) AND-NOR



C) NOR-OR



d) OR - NAND

