b. F(w,x,y,2) = W'z +xy' +yz +wx'y 11 10 (W+X+Z) (w+x+4) NOR-NOR ((d+B) + (Y+W))] = (x+B) . (r+w). (product of sum) product of sum $\implies F(w,\chi,y,z) = (w+\chi+z) \cdot (\chi'+y+z) \cdot (w'+\chi+y)$ = (w+x+2)+ (x+y+2)+ (w+x+y) $\bar{f} = \left[(w+x+z)' + (x'+y'+z)' + (w'+x+y)' \right]_{X}$