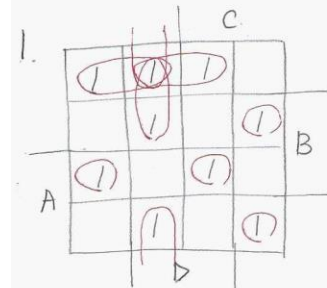
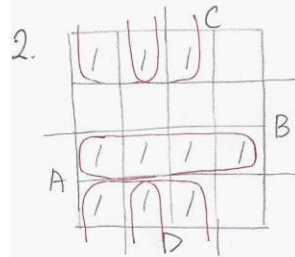


디지털 HW#2

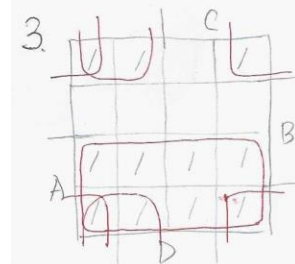
2018203048 박지영



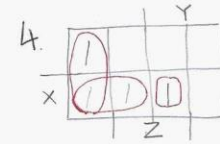
$$F(A,B,C,D) = \bar{A}\bar{B}\bar{C} + \bar{A}\bar{B}D + \bar{A}\bar{C}D + \bar{B}\bar{C}D + \bar{A}BC\bar{D} + \bar{A}BCD + AB\bar{C}\bar{D} + ABCD$$



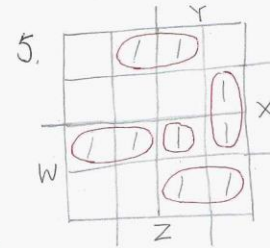
$$F(A,B,C,D) = \bar{B}\bar{C} + \bar{B}D + AB$$



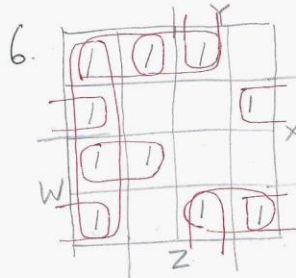
$$F(A,B,C,D) = A + \bar{B}\bar{C} + \bar{B}\bar{D}$$



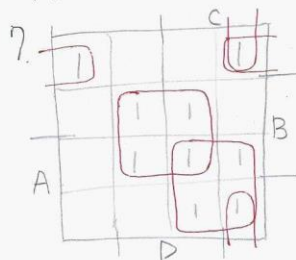
$$F(X,Y,Z) = \sum m(0,4,5,7)$$



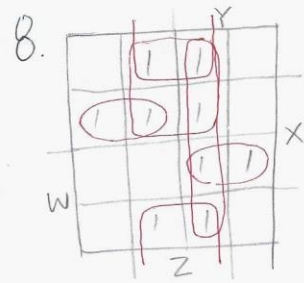
$$F(W,X,Y,Z) = \sum m(1,3,6,10,11,12,13,14,15)$$



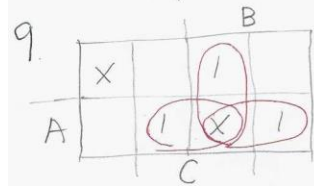
$$\begin{aligned} F(W,X,Y,Z) &= \bar{W}\bar{X}\bar{Y} + \bar{W}\bar{X}\bar{Z} + \bar{W}X\bar{Z} + W\bar{X}\bar{Y} + W\bar{X}\bar{Z} \\ &+ W\bar{X}Y + \bar{Y}\bar{Z} + \bar{X}YZ \\ &= \bar{W}\bar{X}Z + \bar{Y}\bar{Z} + \bar{W}X\bar{Z} + W\bar{X}\bar{Y} + W\bar{X}\bar{Z} \end{aligned}$$



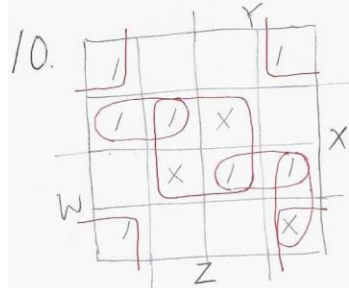
$$\begin{aligned} F(A,B,C,D) &= BD + AC + \bar{B}\bar{C}\bar{D} + \bar{A}\bar{B}\bar{D} \\ &= BD + AC + \bar{A}\bar{B}\bar{D} \end{aligned}$$



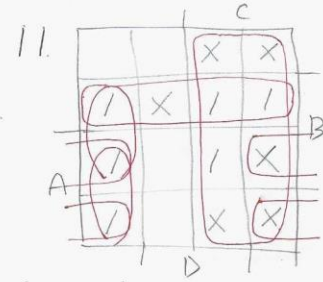
$$\begin{aligned}
 F(W,X,Y,Z) &= \bar{W}Z + \bar{X}Z + YZ \\
 &\quad + \bar{W}X\bar{Y} + WXY \\
 &= WXY + \bar{W}X\bar{Y} + \bar{X}Z + YZ
 \end{aligned}$$



$$F(A,B,C) = AB + AC + BC$$



$$\begin{aligned}
 F(W,X,Y,Z) &= \bar{X}\bar{Z} + XZ + \bar{W}X\bar{Y} \\
 &\quad + WXY + WY\bar{Z} \\
 &= \bar{X}\bar{Z} + XZ + \bar{W}X\bar{Y} + WXY
 \end{aligned}$$



$$\begin{aligned}
 F(A,B,C,D) &= C + \bar{A}B + \bar{B}\bar{C}\bar{D} + \bar{A}\bar{C}\bar{D} + \bar{A}\bar{B}\bar{D} + \bar{A}\bar{B}\bar{D} \\
 &= C + \bar{A}B + \bar{A}\bar{C}\bar{D}
 \end{aligned}$$