数字逻辑. 第三周周三. 作业4.

1) $F = AC + B\bar{D} + \bar{A}BC$

$= AC(\bar{B}+B)(\bar{D}+D) + (\bar{A}+A)(\bar{C}+C)B\bar{D} + \bar{A}BC(D+\bar{D})$

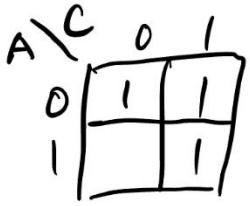
$= ABCD + ABC\bar{D} + AB\bar{C}\bar{D} + \bar{A}B\bar{C}\bar{D} + \bar{A}BC\bar{D} + \bar{A}BCD$

$= m_{15} + m_{14} + m_{12} + m_4 + m_6 + m_7$

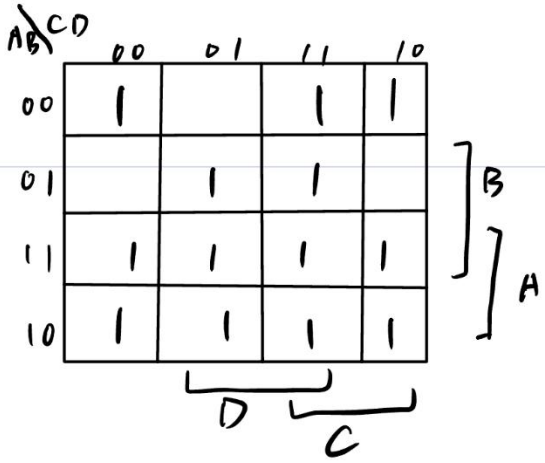
2) $F = (A+\bar{C})C + \bar{A}$

$= AC + \bar{A}C + \bar{A}\bar{C}$

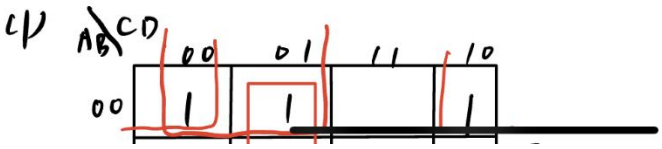
$= m_3 + m_1 + m_0$



3) $F = A + BD + \bar{B}C + \bar{B}\bar{D}$

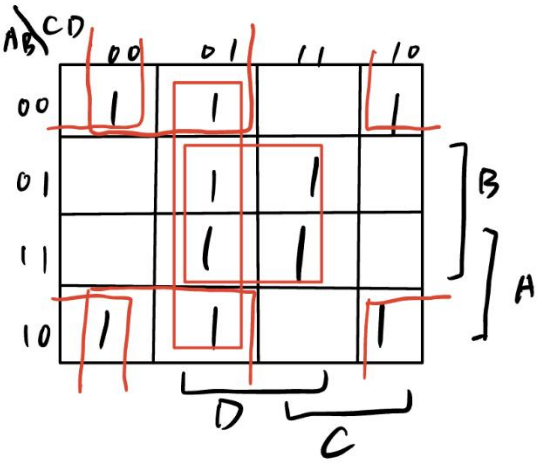


4)



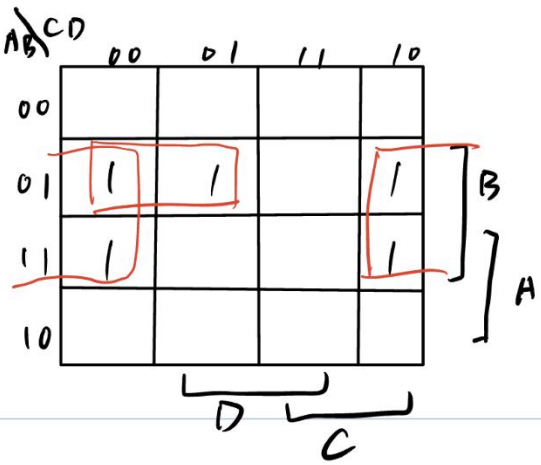
4)

(1)



$F = BD + \bar{B}\bar{D} + \bar{C}D$

(2)



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