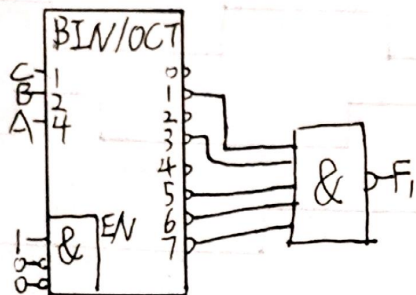


# 便笺

3-4.

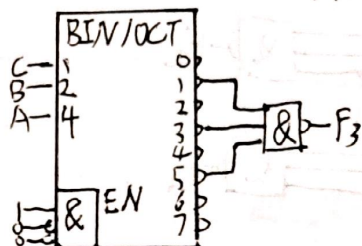
(1)  $F_1(A, B, C) = AB + C$

解:  $F_1(A, B, C) = ABC + AB\bar{C} + \bar{A}BC + A\bar{B}C + \bar{A}\bar{B}C$



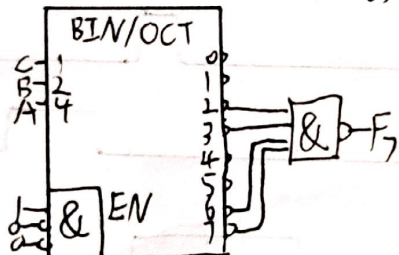
(3)  $F_3(A, B, C) = (A + \bar{B})C$

解:  $F_3(A, B, C) = \bar{A}C + \bar{B}C = \bar{A}BC + \bar{A}\bar{B}C + A\bar{B}C$



(7)  $F_7(A, B, C) = \Pi M(0, 1, 4, 5)$

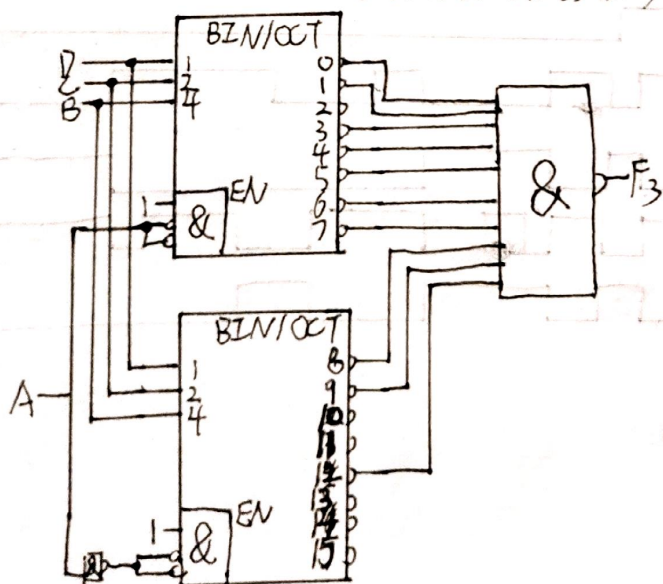
解:  $F_7(A, B, C) = \Sigma m(2, 3, 6, 7)$



3-5.

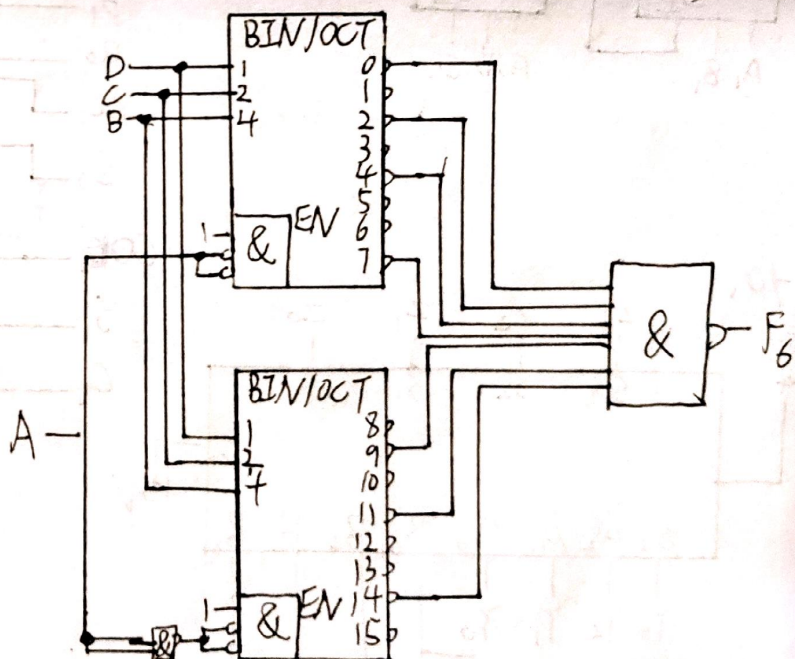
(3)  $F_3(A, B, C, D) = \bar{A}(B + D) + C + \bar{B}D$

解:  $F_3(A, B, C, D) = \bar{A}B + \bar{A}D + C + \bar{B}D$   
 $= \bar{A}B + \bar{A}D + \bar{B}C + \bar{C}D$   
 $= \Sigma m(0, 1, 3, 4, 5, 6, 7, 8, 9, 12)$



(6)  $F_6(A, B, C, D) = \Pi M(1, 3, 5, 6, 8, 10, 12, 13, 15)$

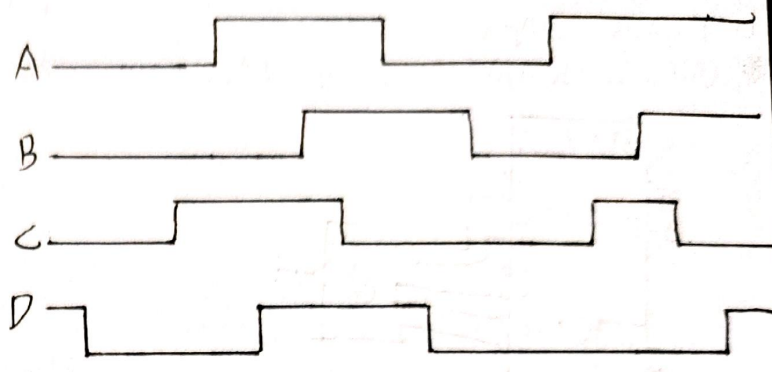
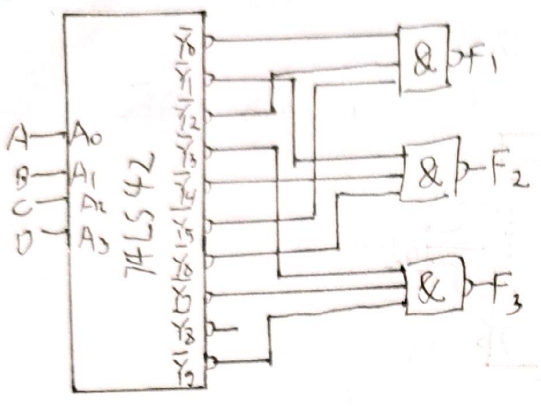
解:  $F_6(A, B, C, D) = \Sigma m(0, 2, 4, 7, 9, 11, 14)$



3-6.

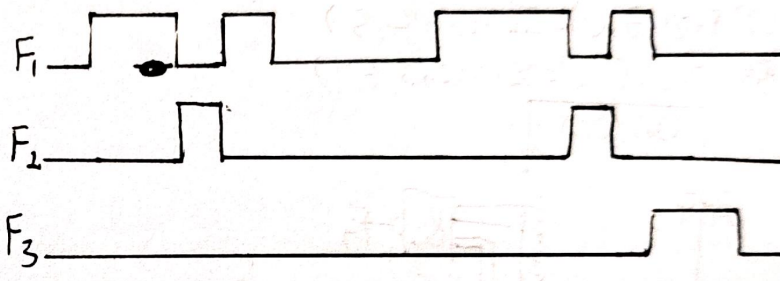
解:  $\bar{Y}_0 = A_3 + A_2 + A_1 + A_0$ ,  $\bar{Y}_1 = A_3 + A_2 + A_1 + \bar{A}_0$ ,  $\bar{Y}_2 = A_3 + A_2 + \bar{A}_1 + A_0$ ,  $\bar{Y}_3 = A_3 + A_2 + \bar{A}_1 + \bar{A}_0$ ,  $\bar{Y}_4 = A_3 + \bar{A}_2 + A_1 + A_0$ ,  
 $\bar{Y}_5 = A_3 + \bar{A}_2 + A_1 + \bar{A}_0$ ,  $\bar{Y}_6 = A_3 + \bar{A}_2 + \bar{A}_1 + A_0$ ,  $\bar{Y}_7 = A_3 + \bar{A}_2 + \bar{A}_1 + \bar{A}_0$ ,  $\bar{Y}_8 = \bar{A}_3 + A_2 + A_1 + A_0$ ,  $\bar{Y}_9 = \bar{A}_3 + A_2 + A_1 + \bar{A}_0$

3-7.

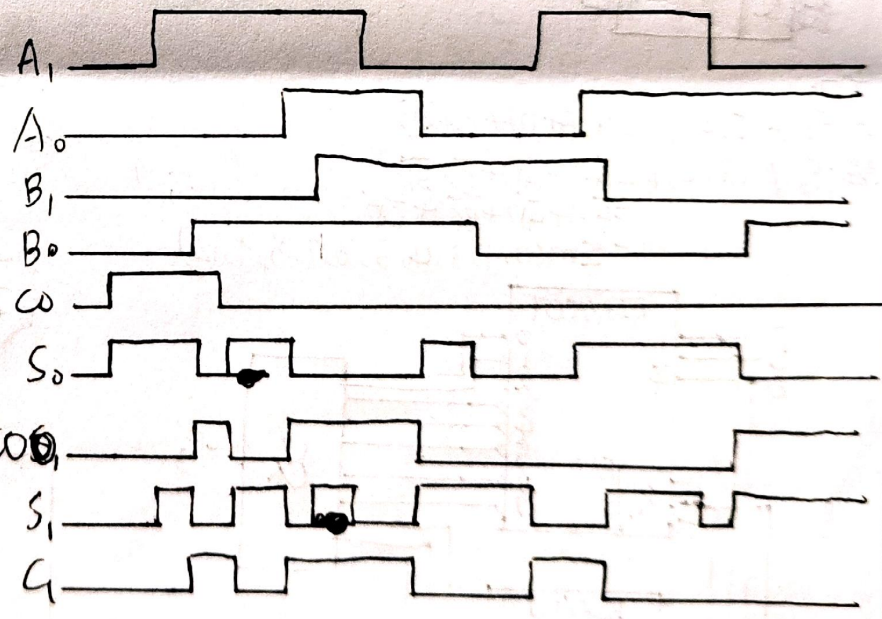
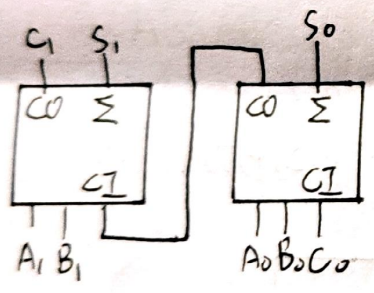


解:

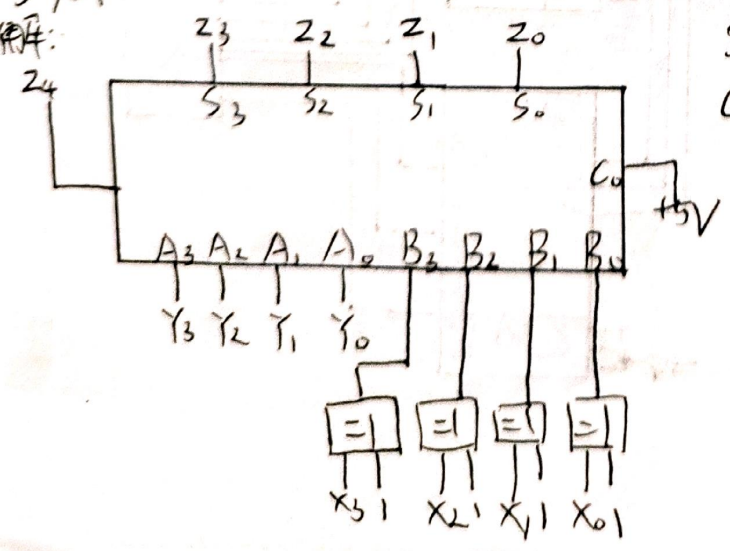
$F_1 = \bar{Y}_0 \cdot \bar{Y}_2 \cdot \bar{Y}_5 = \bar{A} \bar{B} \bar{C} \bar{D} + \bar{A} \bar{B} \bar{C} \bar{D} + \bar{A} \bar{B} \bar{C} \bar{D}$   
 $F_2 = \bar{Y}_4 \cdot \bar{Y}_1 \cdot \bar{Y}_6 = \bar{A} \bar{C} \bar{D} + \bar{A} \bar{B} \bar{C} \bar{D}$   
 $F_3 = \bar{Y}_3 \cdot \bar{Y}_7 \cdot \bar{Y}_9 = \bar{A} \bar{B} \bar{D} + \bar{A} \bar{B} \bar{C} \bar{D}$



3-8.

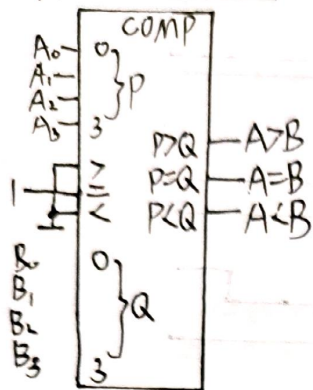


3-10.

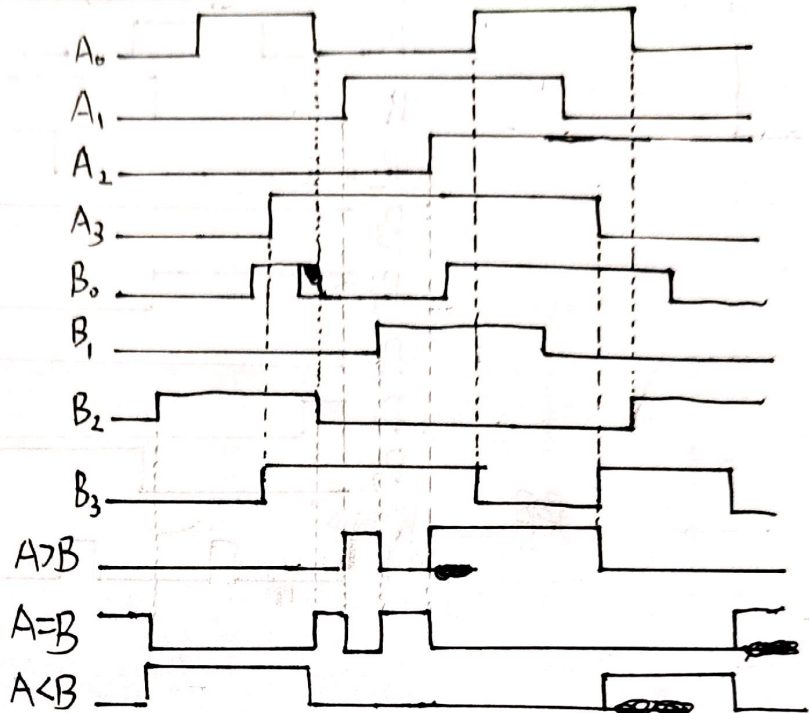


# 便笺

3-11

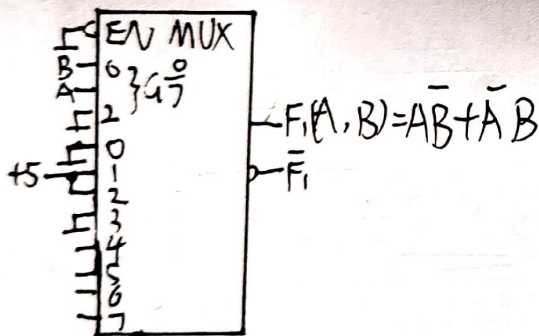


解:



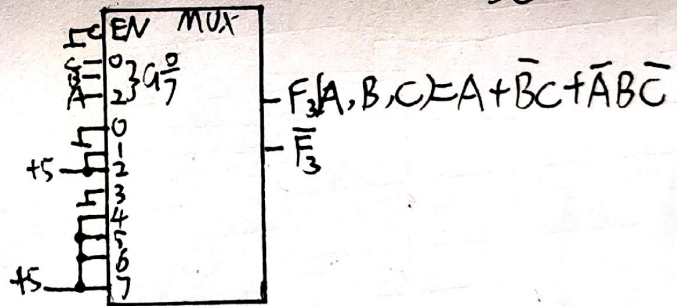
3-12

(1)  $F_1(A, B) = A\bar{B} + \bar{A}B$



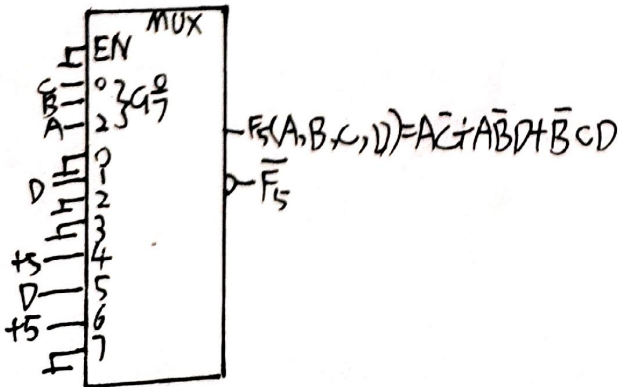
(3)  $F_3(A, B, C) = A + \bar{B}C + \bar{A}B\bar{C}$

解:  $F_3(A, B, C) = A + \bar{A}\bar{B}C + \bar{A}B\bar{C}$



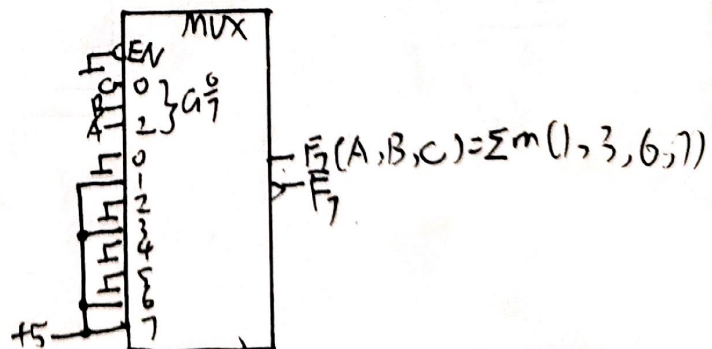
(5)  $F_5(A, B, C, D) = A\bar{C} + \bar{A}B\bar{D} + \bar{B}CD$

解:  $F_5(A, B, C, D) = A\bar{B}\bar{C} + A\bar{B}C + A\bar{B}C\bar{D} + A\bar{B}C\bar{D} + \bar{A}B\bar{C}D + \bar{A}B\bar{C}D$

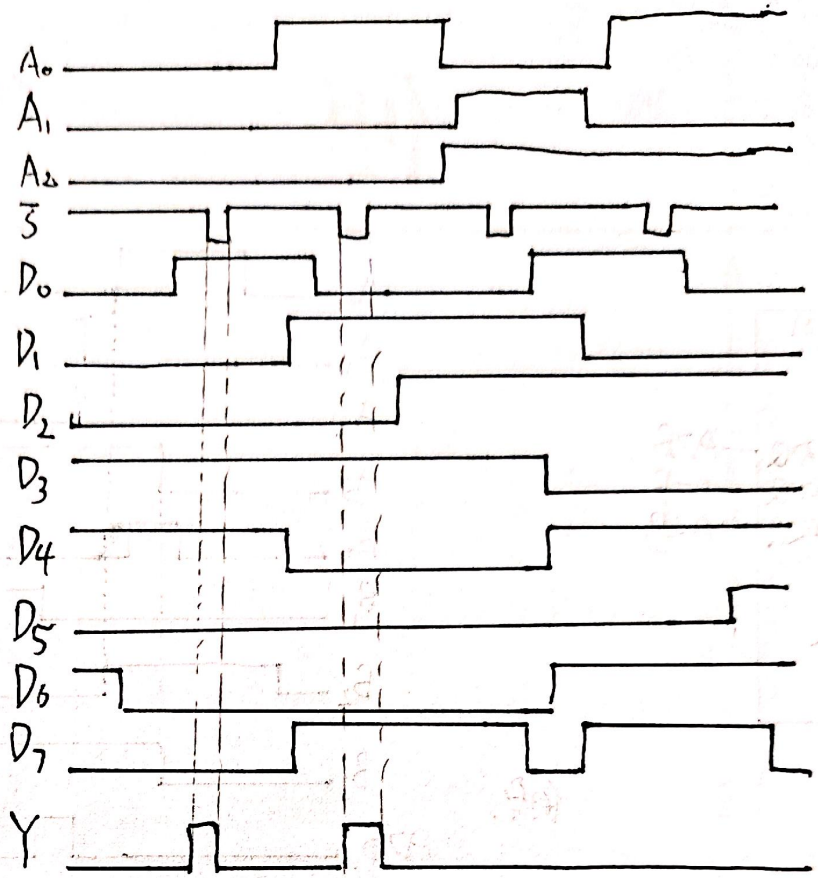
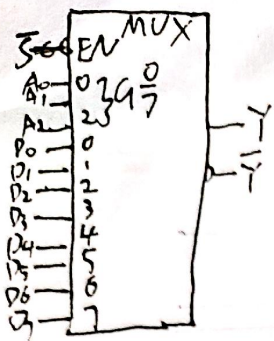


(7)  $F_7(A, B, C) = \sum m(1, 3, 6, 7)$

解:



3-15.



解: