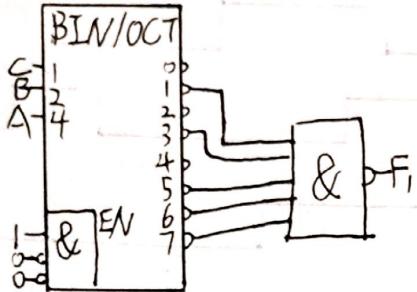


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3-4.

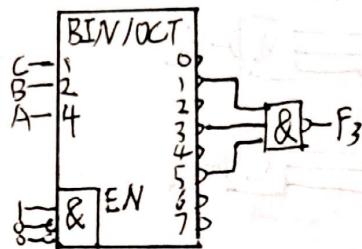
$$(1) F_1(A, B, C) = AB + C$$

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



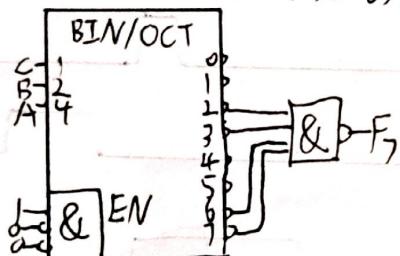
$$(3) F_3(A, B, C) = (A + \bar{B})C$$

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



$$(7) F_7(A, B, C) = \Sigma m(0, 1, 4, 5)$$

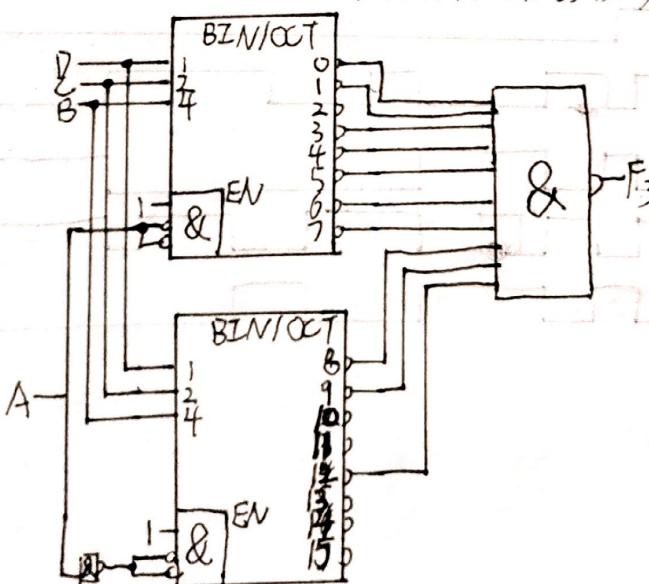
$$\text{解: } F_7(A, B, C) = \sum m(2, 3, 6, 7)$$



3-5.

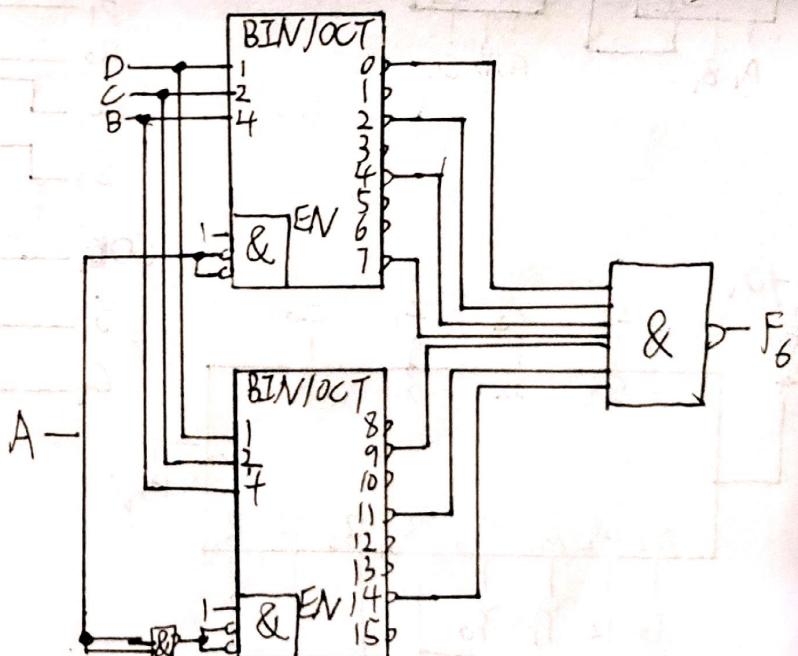
$$(3) F_3(A, B, C, D) = \bar{A}(B + D) + \bar{C} + BD$$

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



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

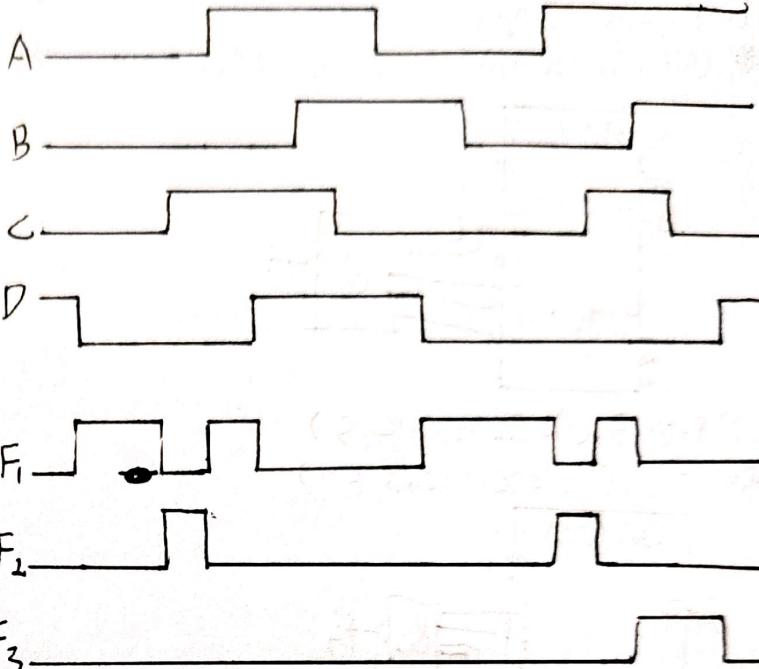
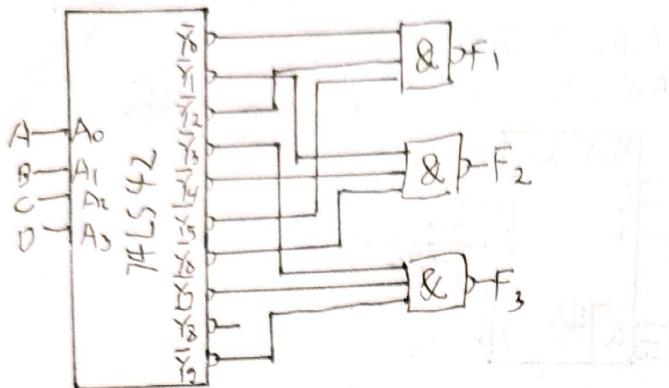
$$\text{解: } F_6(A, B, C, D) = \sum m(0, 2, 4, 7, 9, 11, 14)$$



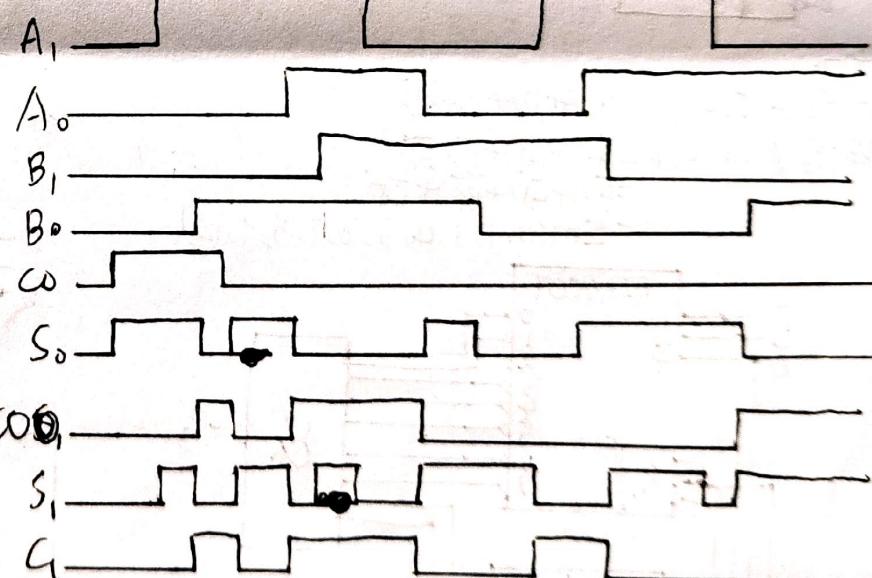
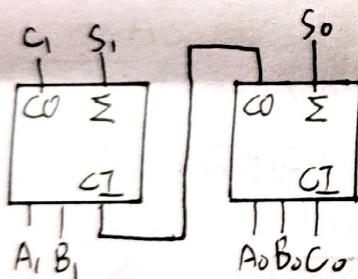
3-6.

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

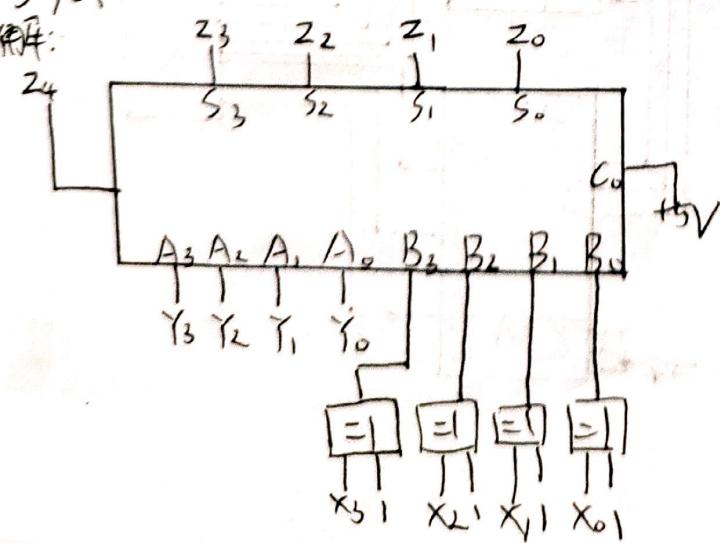
3-7.



3-8.

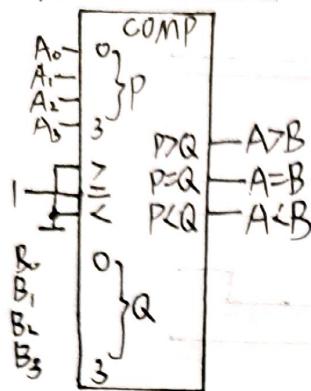


3-9.

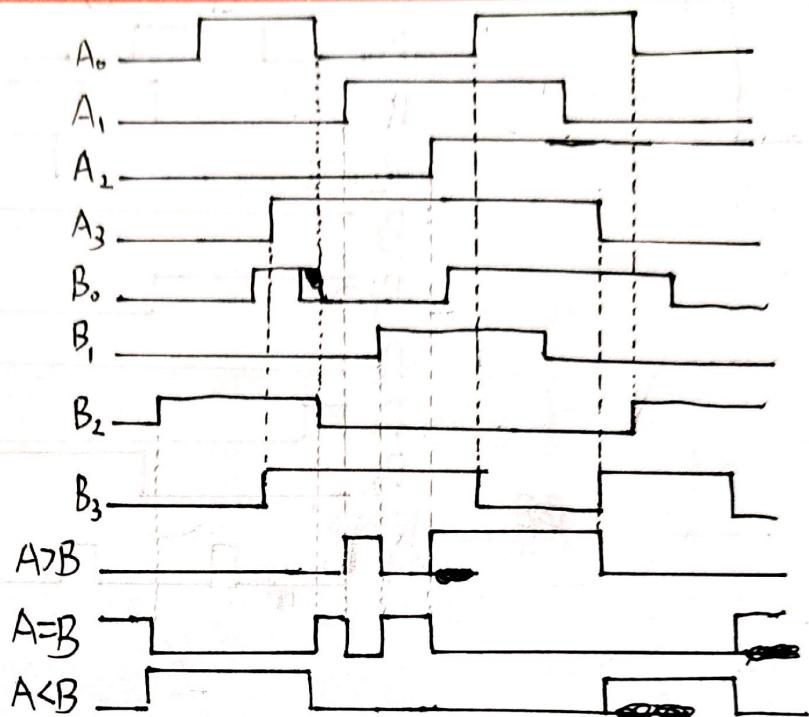


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3-11

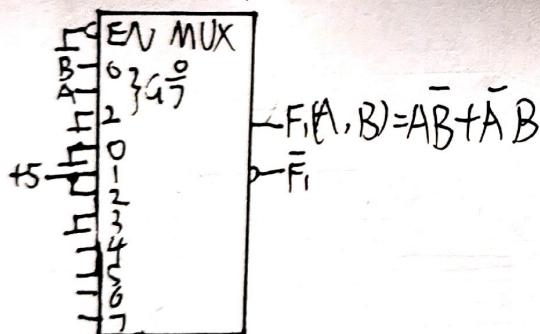


解:



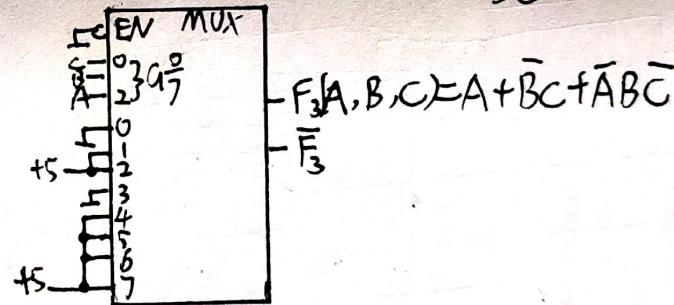
3-12.

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



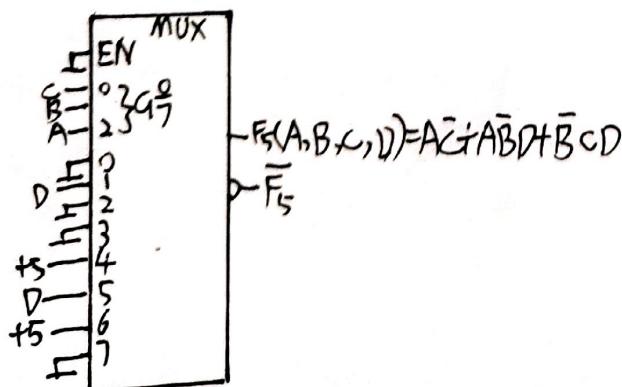
$$(3) F_3(A, B, C) = A + \bar{B}C + \bar{A}B\bar{C}$$

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



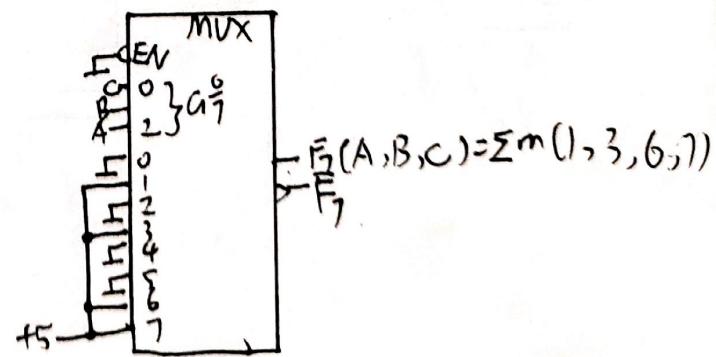
$$(5) F_5(A, B, C, D) = A\bar{C} + A\bar{B}D + \bar{B}CD$$

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

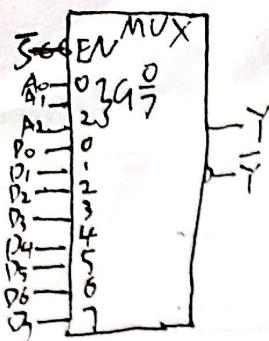


$$(7) F_7(A, B, C) = \sum m(1, 3, 6, 7)$$

解:



3-15.



解：

