

9.5

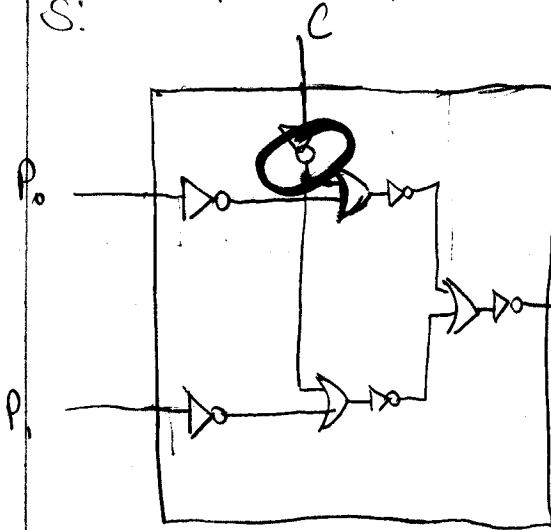
10

CpE III - HW08

8.6, 8.8, 8.10, 8.11

Jan 11/3/99

8.6 $G: F = \overline{P_0 \cdot C + P_1 \cdot C}$
 $F: 2:1$ multiplexer w/ output
 $S:$

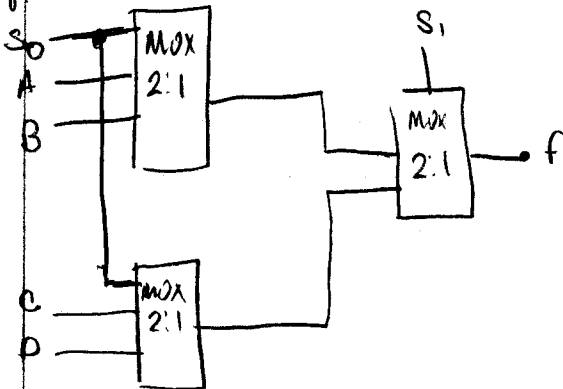


$$\overline{P_0} \cdot \overline{C}$$

$$\overline{P_0 + C_{no}} + \overline{P_1 + C}$$

$$\frac{-1}{2}$$

8.8

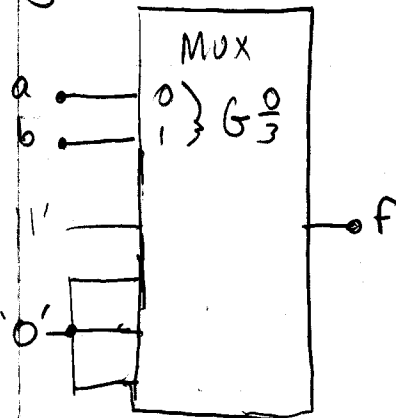


000	1
001	1
010	0
011	0
100	0
101	0
110	0
111	0

8.10. G: MUX 4:1

F: function $f(a,b)$

S:



$$f(a,b) = \overline{a+b}$$

8.11 G: 8:1 MUX

F: function $f(A,B,C)$

S:

$$f(A,B,C) = \overline{A}\overline{B}\overline{C} + \overline{A}\overline{B}C + A\overline{B}\overline{C} + ABC \text{ shown}$$

A \ BC	00	01	11	10
0	1	1	0	0
1	0	0	1	1

$$\overline{A}\overline{B} + AB$$

$$f(A,B,C) = \overline{A}\overline{B} + AB$$

$$f(A,B,C) = \overline{A \oplus B}$$

simplified