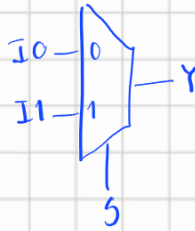


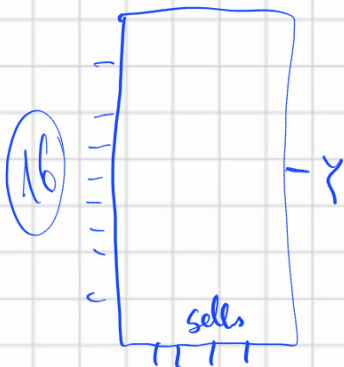
# Aula 07

1



SEL	Y
0	$I_0$
1	$I_1$

$$Y = \overline{SEL} \cdot I_0 + SEL \cdot I_1$$



	$s_3$	$s_2$	$s_1$	$s_0$
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

A	B	C	D
0	0	0	0
0	0	0	1
0	0	1	0
0	0	1	1
0	1	0	0
0	1	0	1
0	1	1	0
0	1	1	1
1	0	0	0
1	0	0	1
1	0	1	0
1	0	1	1
1	1	0	0
1	1	0	1
1	1	1	0
1	1	1	1

Part II

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

AB \ CD	00	01	11	10
00	1	1	1	1
01	1	1	1	1
11	1	1	1	1
10	1	1	1	1

A	B	C	D
0	0	0	0
0	0	0	1
0	0	1	0
0	0	1	1
0	1	0	0
0	1	0	1
0	1	1	0
0	1	1	1
1	0	0	0
1	0	0	1
1	0	1	0
1	0	1	1
1	1	0	0
1	1	0	1
1	1	1	0
1	1	1	1

$$1.^{\circ} FC \rightarrow f(A, B, C, D) = A + B\bar{C} + \bar{B}D + C\bar{D}$$

$$2.^{\circ} FC \rightarrow f(A, B, C, D) = (A+B+C+D)(A\bar{B}\bar{C}\bar{D})$$

$\begin{array}{cccc} 0 & 0 & 0 & 0 \end{array}$   
 $\downarrow$   
 $f=0$

$\begin{array}{cccc} 0 & 1 & 1 & 1 \end{array}$   
 $\downarrow$   
 $f=0$

