

Tarea 3

Conversión de Flip-Flops

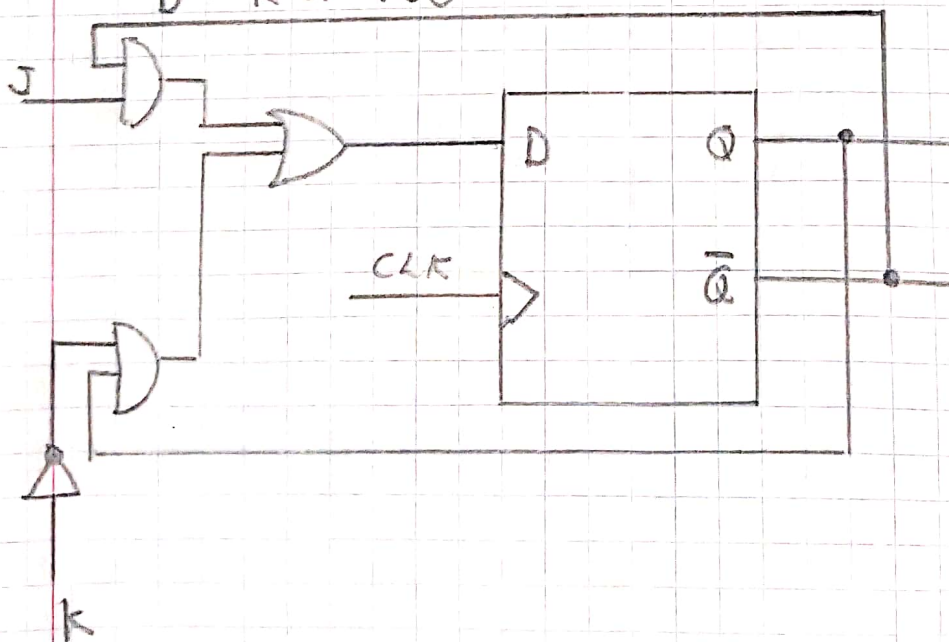
① Tipo D a JK

J	K	Q(t)	Q(t+1)	D
0	0	0	0	0
0	0	1	1	1
0	1	0	0	0
0	1	1	0	0
1	0	0	1	1
1	0	1	1	1
1	1	0	1	1
1	1	1	0	0

Q(t)	Q(t+1)	D
0	0	0
0	1	1
1	0	0
1	1	1

J \ K	0	0	1	1	10
0	0	1	0	0	
1	1	1	0	1	

$$D = \bar{K}Q + J\bar{Q}$$



⑥ Tipo D a SR

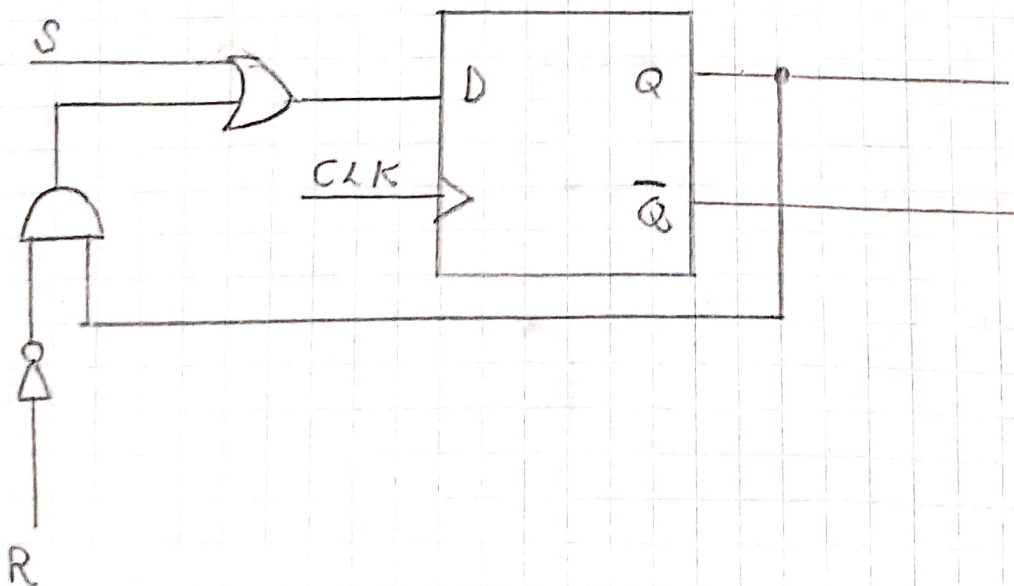
S	R	Q(t)	Q(t+1)	D
0	0	0	0	0
0	0	1	1	1
0	1	0	0	0
0	1	1	0	0
1	0	0	1	1
1	0	1	1	1
1	1	0	X	X
1	1	1	X	X

Q(t)	Q(t+1)	D
0	0	0
0	1	1
1	0	0
1	1	1

D

S \ RQ	00	01	11	10
0	0	1	0	0
1	1	1	X	X

$$D = S + \bar{R}Q$$



e) Tipo D a T

T	Q(t)	Q(t+1)	D
0	0	0	0
0	1	1	1
1	0	1	1
1	1	0	0

Q(t)	Q(t+1)	D
0	0	0
0	1	1
1	0	0
1	1	1

T \ Q	0	1
0	0	1
1	1	0

$$D = T\bar{Q} + \bar{T}Q$$

$$T \oplus Q = D$$

