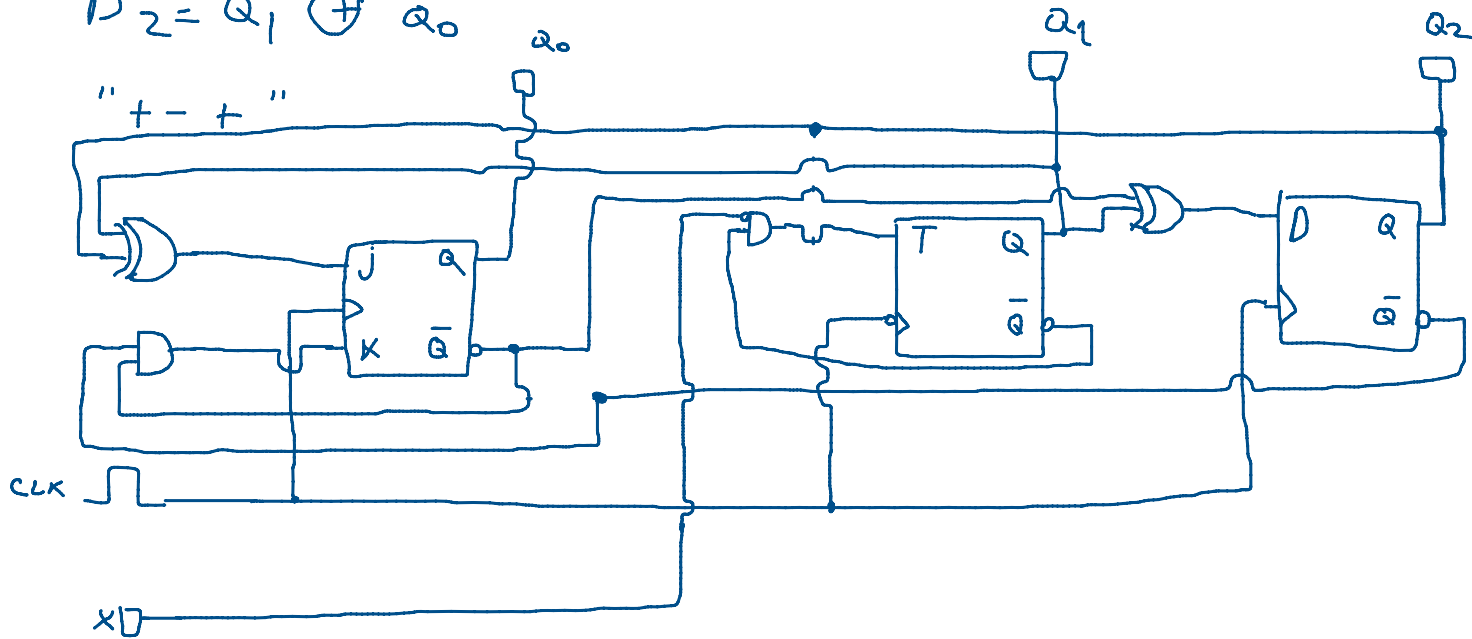$XOR = \oplus$

$$J_0 = Q_1 \oplus Q_2$$

$$K_0 = \overline{Q_0}\, \overline{Q_2}$$

$$T_1 = \overline{X}\, \overline{Q_1}$$

$$D_2 = Q_1 \oplus \overline{Q_0}$$

"+ - +"

Q_0 Q_1 Q_2

CLK

X

X	Q_1	Q_0	Q_1'	Q_0'	D_1	D_0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
0	1	0	0	0	0	0
0	1	1	1	1	1	1
1	0	0	1	1	1	1
1	0	1	1	0	1	0
1	1	0	0	1	0	0
1	1	1	0	0	0	0

$$D_1 = \overline{X}\, Q_0 + X\, \overline{Q_1}$$

$$D_0 = \overline{X}\, Q_0 + X\, \overline{Q_0}$$

D_1

$\sim X$ 0   1

$D_0 |, X$ 0   1

$D_1)$

	X	0	1
$Q_1 Q_0$		X	X
0 0 $\overline{Q_1}\,\overline{Q_0}$		0	1
0 1 $\overline{Q_1}\, Q_0$		1	1
1 1 $Q_1\, Q_0$		1	0
1 0 $Q_1\, \overline{Q_0}$		0	0

$D_0)$

	X	0	1
		—	—
$Q_1 Q_0$		X	X
$\overline{Q_1}\,\overline{Q_0}$		0	1
$\overline{Q_1}\, Q_0$		1	0
$Q_1\, Q_0$		1	0
$Q_1\, \overline{Q_0}$		0	1

Q_1

X

CLK