Tabla de Examen 1

Entradas Lógicas					Salidas Lógicas						
Decimal	A	B	C	D	a	b	c	d	e	f	g
0	0	0	0	0	1	1	1	1	1	1	0
1	0	0	0	1	0	1	1	0	0	0	0
2	0	0	1	0	1	1	0	1	1	0	1
3	0	0	1	1	1	1	1	1	0	0	1
4	0	1	0	0	0	1	1	0	0	1	1
5	0	1	0	1	1	0	1	1	0	1	1
6	0	1	1	0	1	0	1	1	1	1	1
7	1	1	1	1	1	1	1	0	0	0	0
8	1	0	0	0	1	1	1	1	1	1	1
9	1	0	0	1	1	1	1	1	0	1	1
10	1	0	1	0	X	X	X	X	x	X	X
11	1	0	1	1	X	X	X	X	X	X	X
12	1	1	0	0	X	X	X	X	X	X	X
13	1	1	0	1	X	X	X	X	X	X	X
14	1	1	1	0	X	X	X	X	X	X	X
15	1	1	1	1	x	x	x	x	X	x	X

Segmento A

CD\AB	00	01	11	10
00	1	0	X	1
01	0	1	X	1
11	1	1	X	X
10	1	1	X	X

Formula

$\overline{B}\overline{D}+A+BD+C$

Circuito
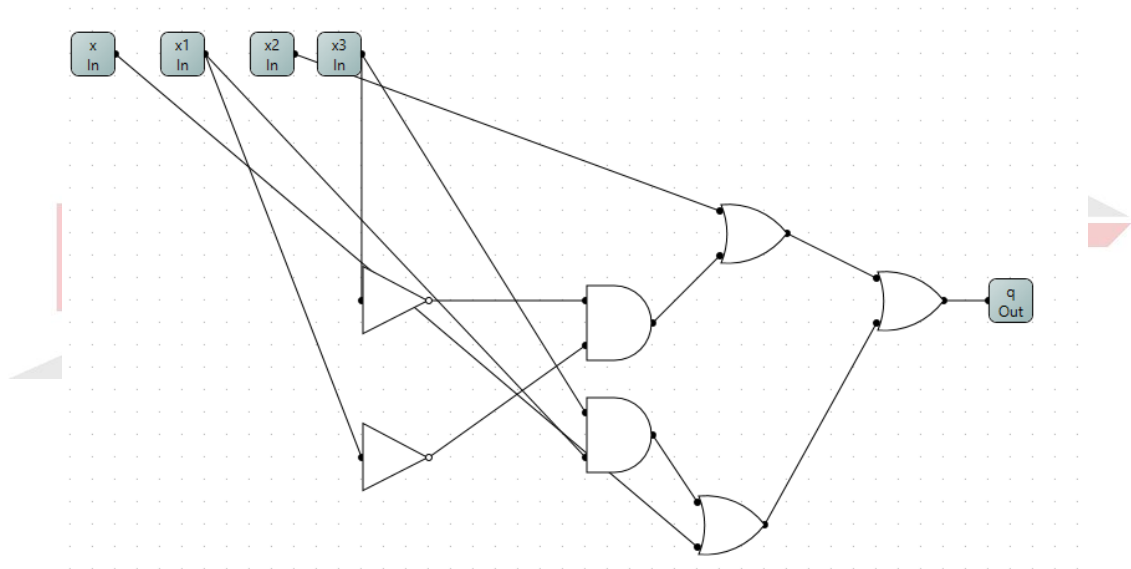
Segmento B

CD\AB	00	01	11	10
00	1	1	X	1
01	1	0	X	1
11	1	1	X	X
10	1	0	X	X

Formula

$\overline{A}\overline{B}+A+CD+\overline{C}\overline{D}$

Circuito
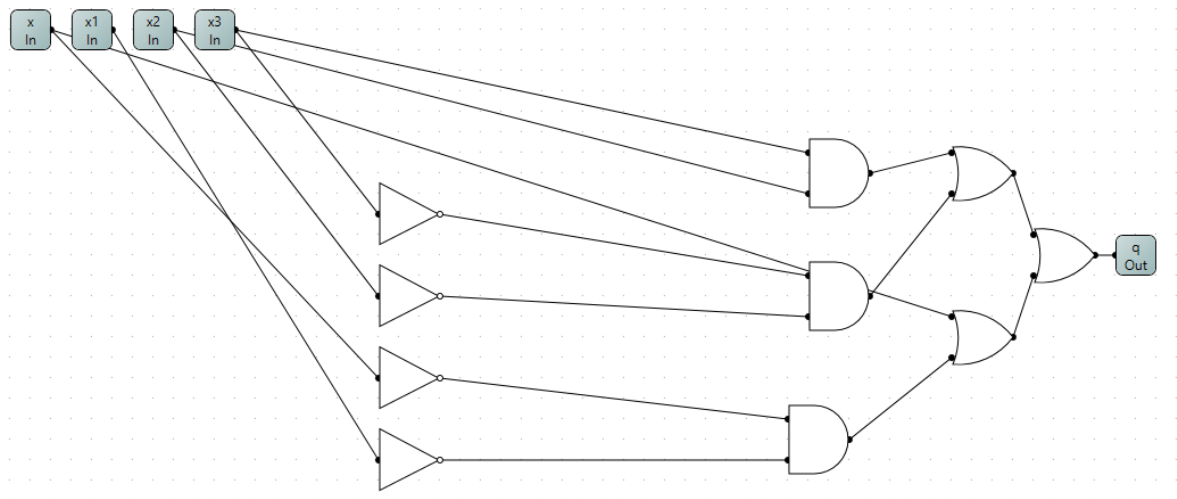
Segmento C

CD\AB	00	01	11	10
00	1	1	X	1
01	1	1	X	1
11	1	1	X	X
10	0	1	X	X

Formula

$$D+A+B+\overline{C}$$

Circuito
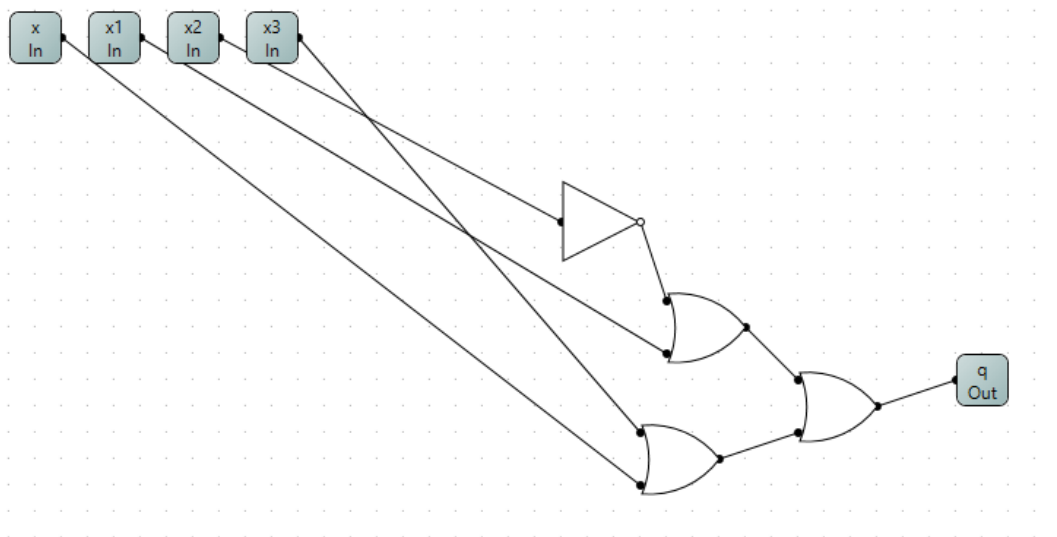
Segmento D

CD\AB	00	01	11	10
00	1	0	X	1
01	0	1	X	1
11	1	0	X	X
10	1	1	X	X

Formula

$$\overline{B}\overline{D}+A+\overline{B}C+C\overline{D}+B\overline{C}D$$

Circuito
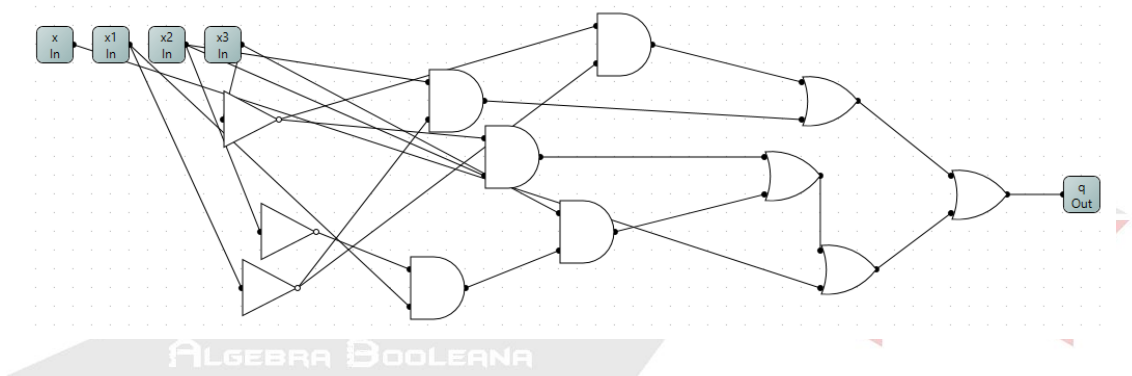
Segmento E

CD\AB	00	01	11	10
00	1	0	X	1
01	0	0	X	0
11	0	0	X	X
10	1	1	X	X

Formula

$$\overline{A}\,\overline{B}\,\overline{C}\,\overline{D}+A\overline{B}\,\overline{C}\,\overline{D}+\overline{A}C\overline{D}$$

Circuito
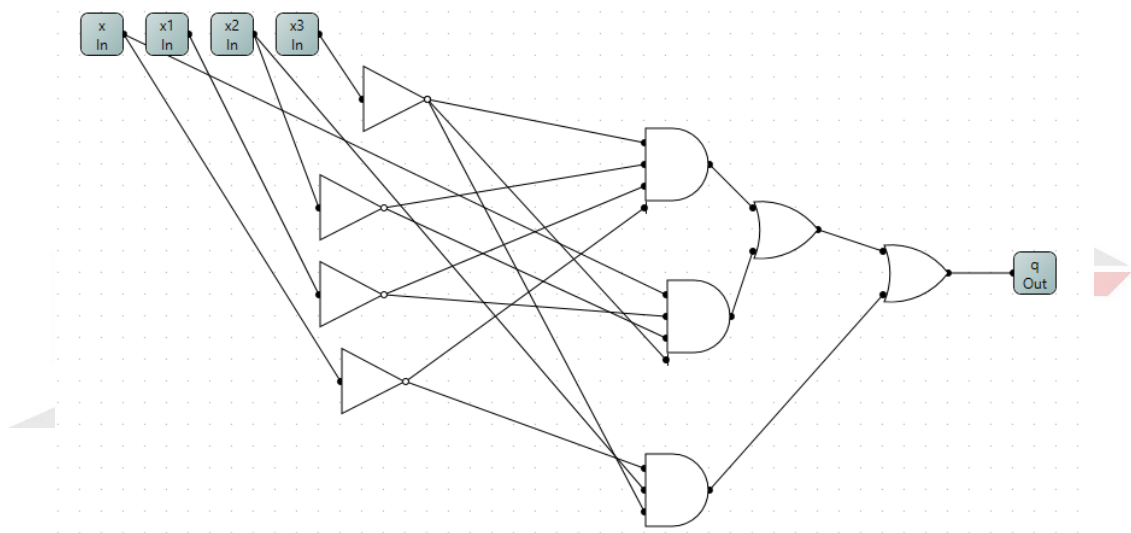
Segmento F

CD\AB	00	01	11	10
00	1	1	X	1
01	0	1	X	1
11	0	0	X	X
10	0	1	X	X

Formula

$$\overline{A}\,\overline{B}\,\overline{C}\,\overline{D}+A\overline{B}\,\overline{C}+\overline{A}\,\overline{B}\,\overline{C}+\overline{A}BC\overline{D}$$

Circuito
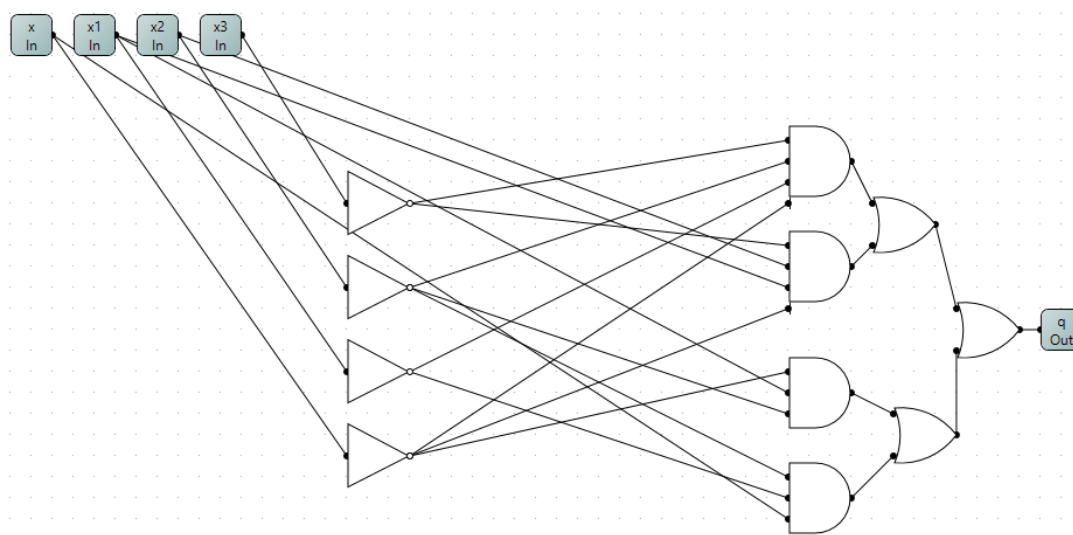
Segmento G

CD\AB	00	01	11	10
00	0	1	X	1
01	0	1	X	1
11	1	0	X	X
10	1	1	X	X

Formula

$A+B\bar{C}+C\bar{D}+\bar{A}\bar{B}C$

Circuito