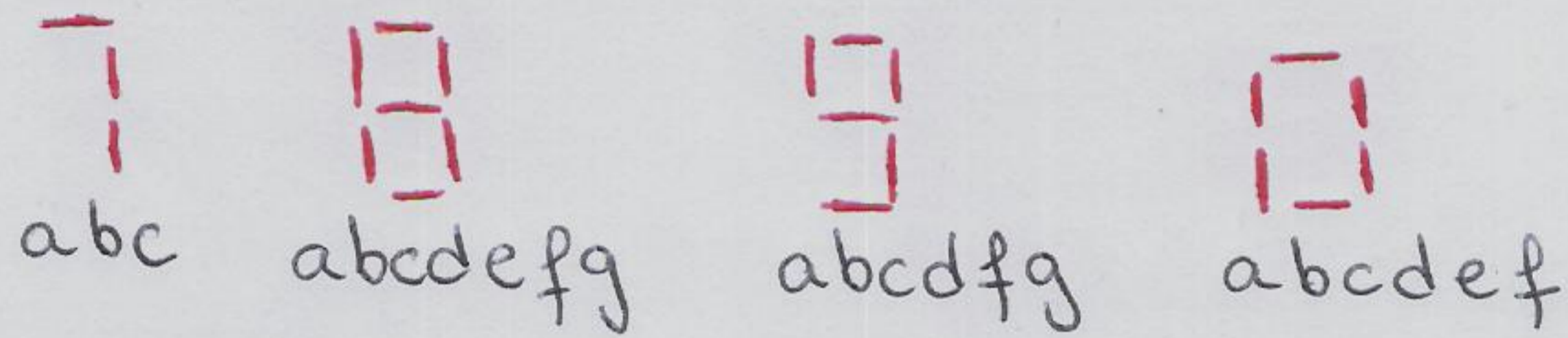
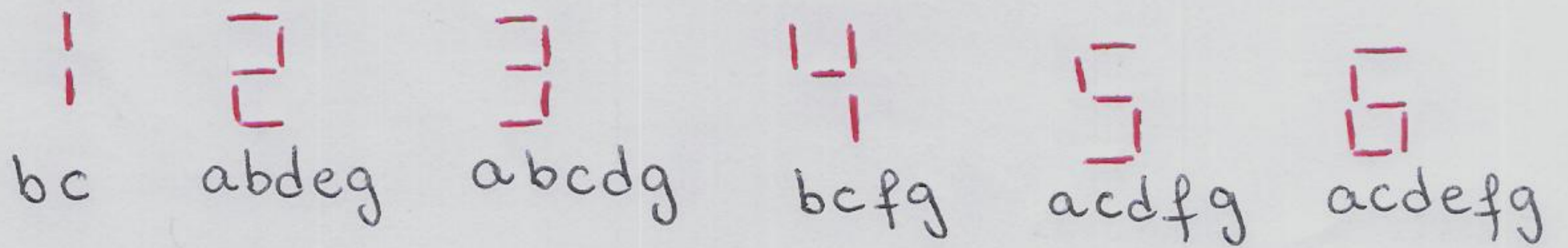
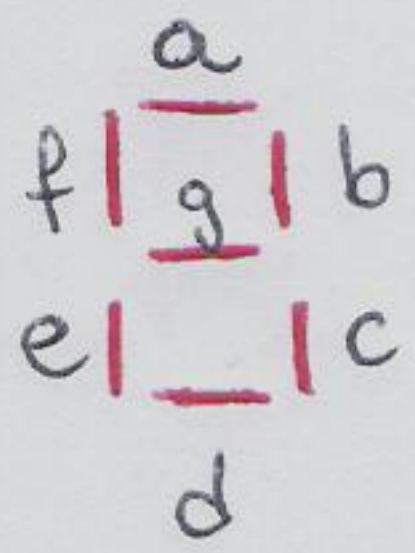


DISPLAY 7 SEGMENTOS



* Tabla de verdad de los decimales de 0 a 9

	a	b	c	d
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

* Tabla de verdad display

	a	b	c	d	e	f	g	
1	1	1	1	1	1	1	0	— 0
0	0	1	1	0	0	0	0	— 1
1	1	1	0	1	1	0	1	— 2
1	1	1	1	0	0	1	1	— 3
0	0	1	1	0	0	1	1	— 4
1	1	0	1	1	0	1	1	— 5
1	1	0	1	1	1	1	1	— 6
1	1	1	1	0	0	0	0	— 7
1	1	1	1	1	1	1	1	— 8
1	1	1	1	1	0	1	1	— 9

* Realizamos un mapa de Karnaugh para cada una de las funciones de la tabla de verdad del display (a, b, c, d, e, f, g.)

ab \ cd	00	01	11	10
00	1	0	0	1
01	0	1	0	0
11	1	1	0	0
10	1	1	0	1

$$A = \bar{b}\bar{d} + \bar{a}c + \bar{a}bd$$

ab \ cd	00	01	11	10
00	1	1	1	1
01	1	0	1	1
11	1	1	1	1
10	1	0	1	1

$$B = a + \bar{c}\bar{d} + \bar{b} + cd$$

ab \ cd	00	01	11	10
00	1	1	1	1
01	1	1	1	1
11	1	1	1	1
10	0	1	1	1

$$C = \bar{c} + a + cd + b$$

ab \ cd	00	01	11	10
00	1	1	1	1
01	0	1	1	1
11	1	0	1	1
10	1	1	1	1

$$D = a + \bar{d} + b\bar{c} + \bar{b}c$$

ab \ cd	00	01	11	10
00	1	0	0	1
01	0	0	0	0
11	0	0	0	0
10	1	1	0	0

$$E = \bar{b}\bar{c}\bar{d} + \bar{a}\bar{b}\bar{d} + \bar{a}c\bar{d}$$

ab \ cd	00	01	11	10
00	1	1	1	1
01	0	1	1	1
11	0	0	1	1
10	0	1	1	1

$$F = a + \bar{c}\bar{d} + b\bar{c} + b\bar{d}$$

ab \ cd	00	01	11	10
00	0	1	1	1
01	0	1	1	1
11	1	0	1	1
10	1	1	1	1

$$G = a + b\bar{c} + c\bar{d} + \bar{b}c$$

a b c d

