

 **MÉXICO INSTITUTO NACIONAL ELECTORAL**
CREDENCIAL PARA VOTAR



NOMBRE
COLIN
RAMIRO
JOEL

DOMICILIO
- EDIF F 17 ENT 5 DEP 1
COL LOMAS DE PLATEROS 01480
ALVARO OBREGON, CDMX

CLAVE DE ELECTOR CLRMJL99123128H300

CURP CORJ991231HTSLML04

FECHA DE NACIMIENTO
31/12/1999
SEXO: H



AÑO DE REGISTRO 2017 00

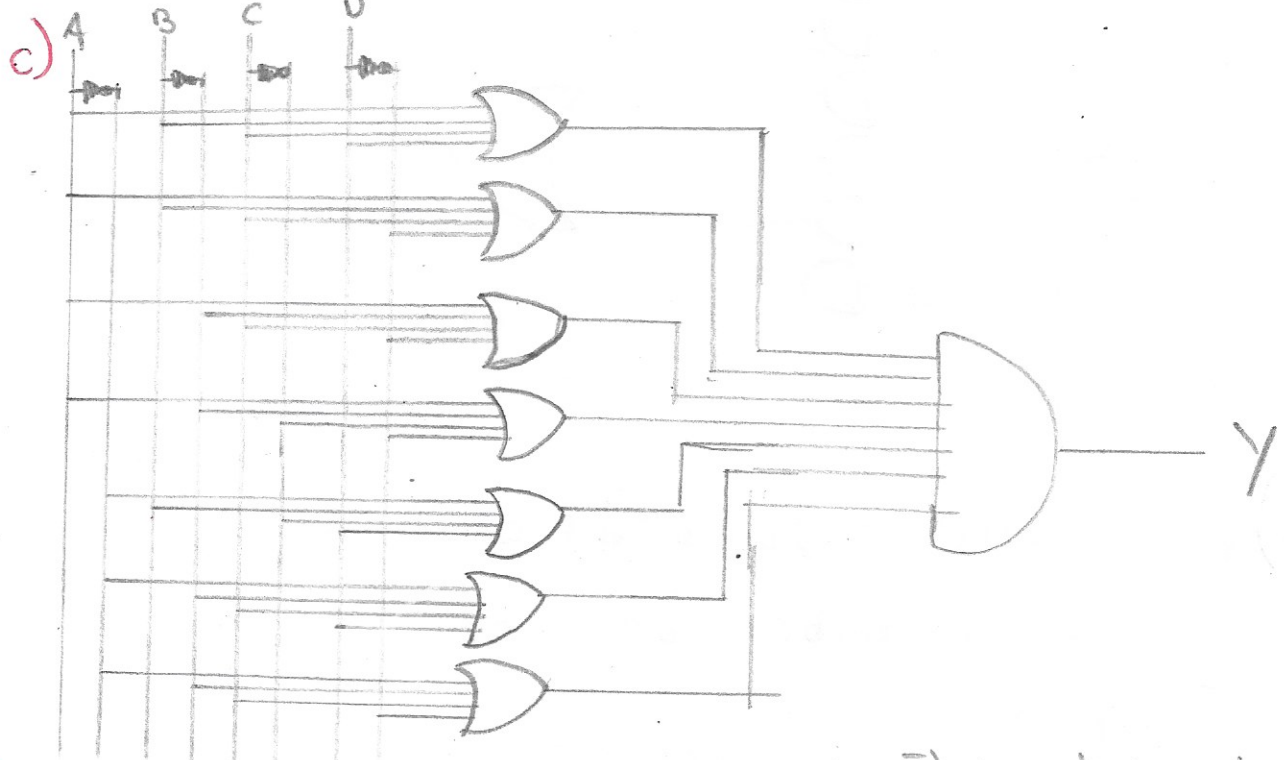
ESTADO 09 MUNICIPIO 010 SECCIÓN 3422

LOCALIDAD 0001 EMISIÓN 2017 VIGENCIA 2027



1- a) $y = (\bar{a}\bar{b}c\bar{d}) + (\bar{a}\bar{b}cd) + (\bar{a}b\bar{c}\bar{d}) + (\bar{a}b\bar{c}d) + (a\bar{b}\bar{c}\bar{d}) + (a\bar{b}\bar{c}d) + (a\bar{b}cd) + (abc\bar{d}) + (abcd)$

b) $y = (a+b+c+d)(a+b+c+\bar{d})(a+\bar{b}+c+d)(a+\bar{b}+\bar{c}+d)(\bar{a}+b+\bar{c}+d)(\bar{a}+\bar{b}+c+d)$



d) $y = (\bar{a}\bar{b}c\bar{d}) + (\bar{a}\bar{b}cd) + (\bar{a}b\bar{c}\bar{d}) + (\bar{a}b\bar{c}d) + (a\bar{b}\bar{c}\bar{d}) + (a\bar{b}\bar{c}d) + (a\bar{b}cd) + (abc\bar{d}) + (abcd)$

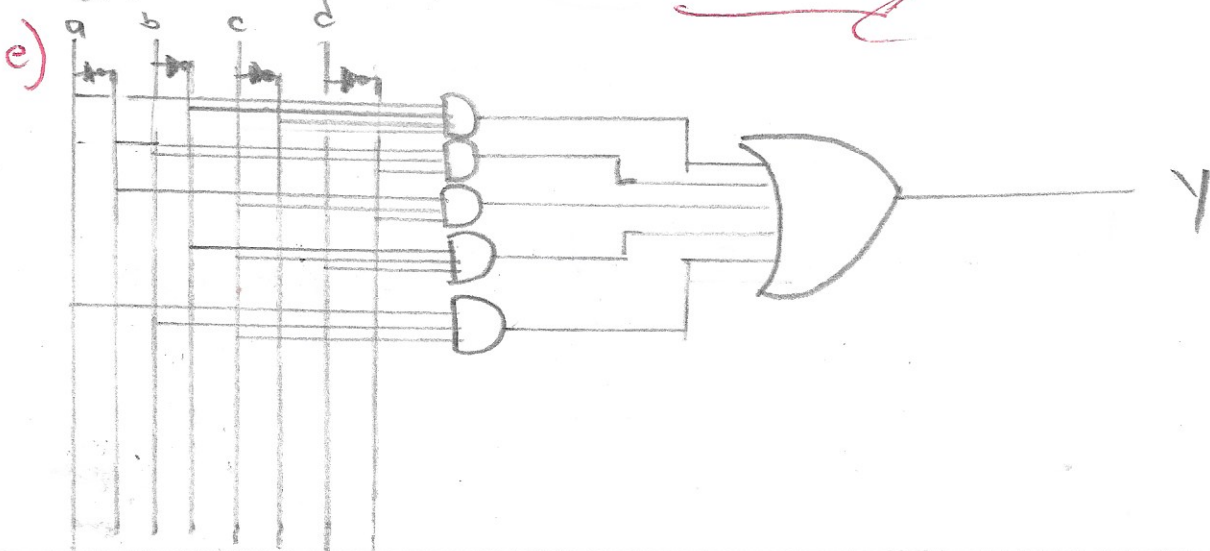
$$\bar{a}(\bar{b}c\bar{d} + \bar{b}cd + b\bar{c}\bar{d} + b\bar{c}d) + a(\bar{b}\bar{c}\bar{d} + \bar{b}\bar{c}d + \bar{b}cd + b\bar{c}\bar{d} + bcd)$$

$$\bar{a}(\bar{b}c\bar{d} + \bar{b}cd + b\bar{c}\bar{d}) + a(\bar{b}\bar{c}\bar{d} + \bar{b}\bar{c}d + b\bar{c}\bar{d} + bcd)$$

$$\bar{a}(\bar{b}(\bar{c}\bar{d} + \bar{c}d + b\bar{d}) + a(\bar{b}c\bar{d}) + \bar{b}cd + b\bar{c}\bar{d} + bcd)$$

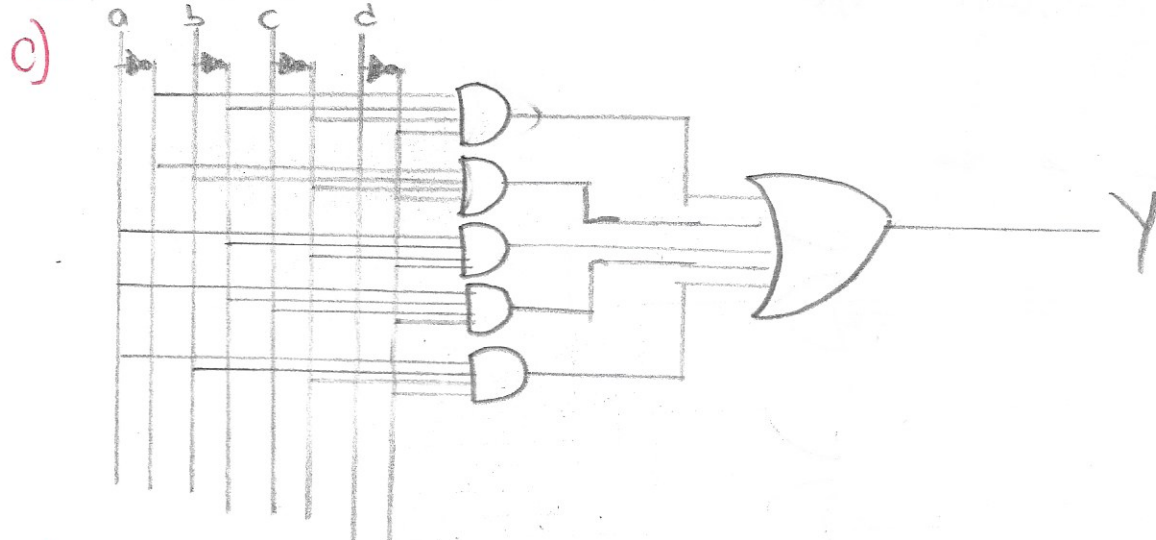
$$\bar{a}(a(\bar{b}d + b\bar{d} + \bar{b})) + a(\bar{b} + c + b\bar{c}\bar{d}) + bcd$$

$$a\bar{b}\bar{c} + a\bar{b}d + a\bar{c}\bar{d} + \bar{b}cd + abc$$



2- a) $y = \sum_4 (0, 4, 8, 10, 12)$

b) $y = (\bar{a}\bar{b}\bar{c}\bar{d}) + (\bar{a}b\bar{c}\bar{d}) + (a\bar{b}\bar{c}\bar{d}) + (a\bar{b}c\bar{d}) + (ab\bar{c}\bar{d})$



d) $y = (\bar{a}\bar{b}\bar{c}\bar{d}) + (\bar{a}b\bar{c}\bar{d}) + (a\bar{b}\bar{c}\bar{d}) + (a\bar{b}c\bar{d}) + (ab\bar{c}\bar{d})$

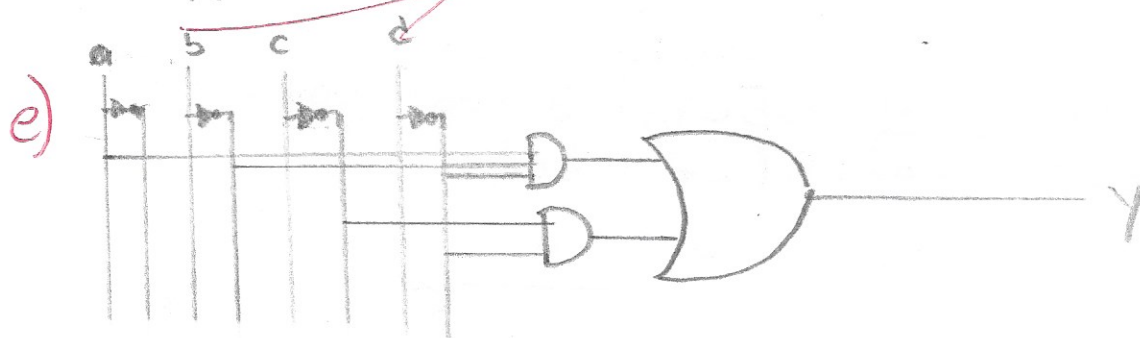
$$\bar{d}((\bar{a}\bar{b}\bar{c} + \bar{a}b\bar{c}) + (a\bar{b}\bar{c} + a\bar{b}c) + ab\bar{c})$$

$$\bar{d}(a\bar{b} + (\bar{a}\bar{b}c + \bar{a}b\bar{c}) + ab\bar{c})$$

$$\bar{d}(a\bar{b} + (\bar{a}\bar{b}\bar{c} + ab\bar{c}) + \bar{a}b\bar{c})$$

$$\bar{d}(a\bar{b} + \bar{c})$$

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



3. a) $X = a \vee b \vee c \vee d$

$$x = \bar{b}\bar{d} + b\bar{d} + \bar{a}\bar{d}$$

b) $f = a \vee b \vee c$

$$f = \bar{b}c + b\bar{c} + \bar{a}\bar{b}$$

c) $M = a \vee b \vee c \vee d \vee e$

$$M = \bar{c}d\bar{e} + \bar{a}b\bar{c} + \bar{b}\bar{c}d\bar{e} + bcd\bar{e} + abce + \bar{b}c\bar{d}e + \bar{a}b\bar{c}d\bar{e} + \bar{a}bcd\bar{e}$$

d) $Y = a \vee b \vee c \vee d \vee e$

$$Y = \bar{a}\bar{b}\bar{c}\bar{d} + \bar{a}\bar{c}e + b\bar{c}e + \bar{a}\bar{b} + \bar{a}ce + \bar{b}d\bar{e} + \bar{a}c\bar{d}$$

e) $K = a \vee b \vee c \vee d$

$$K = \bar{a}\bar{b}\bar{c} + \bar{a}\bar{c}\bar{d} + bcd + ac\bar{d} + \bar{a}\bar{b}\bar{d}$$

f) $S = a \vee b \vee c \vee d \vee e$

$$S = \bar{a}\bar{c}\bar{d}e + b\bar{d}\bar{e} + \bar{a}b\bar{c}d + ad\bar{e} + acd + bcd\bar{e} + ac\bar{d}\bar{e}$$

4. - a) $y = (\bar{a}\bar{b}\bar{c}\bar{d}\bar{e}) + (\bar{a}\bar{b}\bar{c}\bar{d}c) + (\bar{a}\bar{b}\bar{c}d\bar{e}) + (\bar{a}\bar{b}cd\bar{e}) + (\bar{a}\bar{b}cde) + (\bar{a}b\bar{c}d\bar{e}) + (\bar{a}b\bar{c}de) + (\bar{a}b\bar{c}d\bar{e}) + (\bar{a}b\bar{c}de) + (a\bar{b}\bar{c}d\bar{e}) + (a\bar{b}\bar{c}de) + (ab\bar{c}d\bar{e}) + (ab\bar{c}de)$

b) $y = \prod_5 (3, 4, 8, 9, 11, 13, 14, 15, 16, 17, 20, 23, 25, 27, 29, 30)$

c)

AB\CD\E	000	001	011	010	110	111	101	100
00	1	1		1	1	1	1	
01				1				1
11	1			1		1		1
10			1	1	1		1	

$$y = \bar{a}\bar{b}\bar{c}\bar{d} + \bar{a}\bar{b} + \bar{c}d\bar{e} + a\bar{b}\bar{c}d + \bar{b}cd\bar{e} + bcd\bar{e} + \bar{b}cde + ab\bar{c}\bar{d}\bar{e} + abcde$$

