

Laboratorio No 3

Ejercicio

1) SOP

$$Y = A\bar{B}\bar{C} + \bar{A}B\bar{C} + A\bar{B}C + A\bar{B}C + ABC$$

POS

$$Y = (A+B+\bar{C}) \cdot (A+\bar{B}+\bar{C}) \cdot (\bar{A}+\bar{B}+C)$$

2) SOP

$$Y = (\bar{A}\bar{B}C) + A\bar{B}\bar{C} + ABC$$

POS

$$Y = (A+\bar{B}+C) \cdot (A+B+\bar{C}) \cdot (A+\bar{B}+\bar{C}) \cdot (\bar{A}+\bar{B}+\bar{C}) \cdot (\bar{A}+B+C)$$

3) SOP

$$Y = (\bar{A}\bar{B}\bar{C}\bar{D}) + \bar{A}\bar{B}\bar{C}D + \bar{A}\bar{B}C\bar{D} + \bar{A}\bar{B}CD + A\bar{B}\bar{C}\bar{D} + A\bar{B}C\bar{D} + ABC\bar{D}$$

POS

$$Y = (A+\bar{B}+C+D) \cdot (A+\bar{B}+C+\bar{D}) \cdot (A+\bar{B}+\bar{C}+D) \cdot (A+\bar{B}+\bar{C}+\bar{D}) \cdot (\bar{A}+B+C+\bar{D}) \cdot (\bar{A}+B+\bar{C}+\bar{D}) \cdot (\bar{A}+\bar{B}+C+D) \cdot (\bar{A}+\bar{B}+C+\bar{D})$$

4) SOP

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

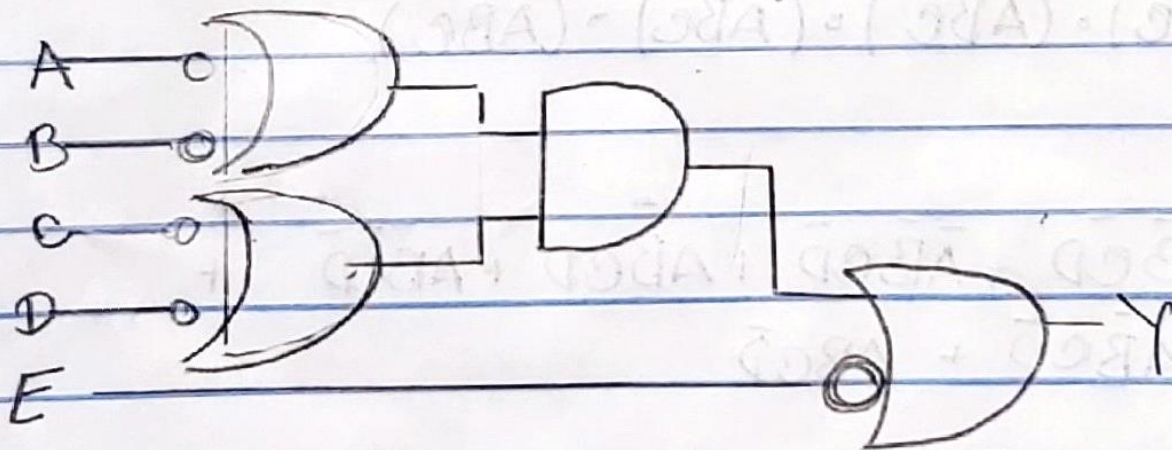
POS

$$Y = (A+B+\bar{C}+\bar{D}) \cdot (A+\bar{B}+C+\bar{D}) \cdot (A+\bar{B}+C+\bar{D}) \cdot (\bar{A}+B+\bar{C}+\bar{D}) \cdot (\bar{A}+B+\bar{C}+\bar{D}) \cdot (\bar{A}+\bar{B}+C+D) \cdot (\bar{A}+\bar{B}+C+D)$$

Exercício 4

1)

$$Y = \overline{[(\overline{A+B}) * (\overline{C+D})] + \overline{E}}$$



$$Y = \overline{[(ABC + D) + (\overline{E} \overline{FG})] + [(ABC + D) + (\overline{E} \overline{FG})]}$$

2)

