

decimal \rightarrow binário: $x \div a = y R 1 \uparrow$ $y \div a = z R 0 \uparrow$

 $0, x \cdot a = 1 + 0, y$ $0, y \cdot a = 0 + 0, z$ binário \(
\text{decimal:}
\)
\(
\text{1 \quad 0 \quad \quad

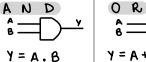
decimal → BCD:

cada algarismo vira
4 bits

binário ← hex:

agrupar de 4 em 4

bits



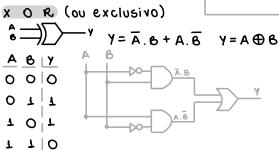
Y = A.B Y 50' & 1 Quando 1.1

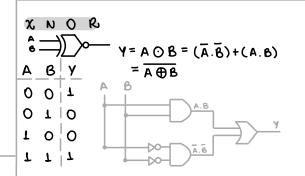


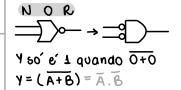
N O T

De Morgan $\overline{A \cdot B} = \overline{A} + \overline{B}$

 $\frac{\overline{\partial} + \overline{A} = \overline{\partial A} \overline{A}}{\overline{\partial} \cdot \overline{A} = \overline{\partial A} \overline{A}} = \frac{\overline{\partial} \cdot \overline{A}}{\overline{\partial} \cdot \overline{A}}$







álgebra booleana

 $A \cdot B = B \cdot A$ $A \cdot B = B + A$ $A \cdot (B + C) = A \cdot B + A \cdot C$

$$A + (B.C) = (A+B).(A+C)$$

(A.B).C = A.(B.C)

$$(A+B)+C=A+(B+C) \qquad \overline{A}=A$$

1. A = A O + A = A

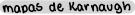
$$A.\overline{A} = 0$$
 $A + \overline{A} = 1$ $AB = AB(C + \overline{C})$

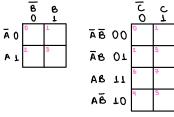
$$\overline{\mathsf{A}} + \mathsf{A} = \mathsf{A} = \mathsf{A} = \mathsf{A} = \mathsf{A} = \mathsf{A}$$

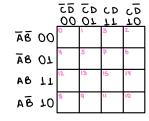
0. A = 0 1 + A = 1

$$A.(A+B) = A$$
 $A.(\overline{A}+B) = A.B$

$$A+(A.B)=A$$
 $A+(\overline{A}.B)=A+B$







La-manimilg sive esp especially appears the mapum tup extrest extrest $(x \leftarrow \overline{x}, y \in \overline{x})$.

B Ci

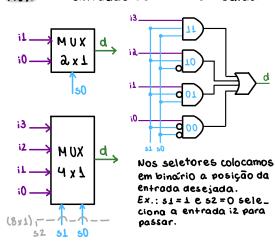


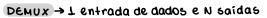
 $S = f_{SOP}(C_{i,A},B)$ $= \{1, 2, 4, 7\}$ $S = C_{i} \oplus (A \oplus B)$ $C_{0} = f_{SOP}(C_{i,A},B)$

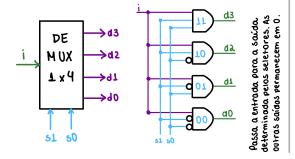
={3,5,6,7}

 $C_0 = A \cdot B + C_1 \cdot Y$ $Y = C_1 (\overline{A}B + \overline{AB})$

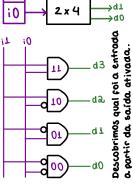
MUX → N entradas de dados e 1 saída







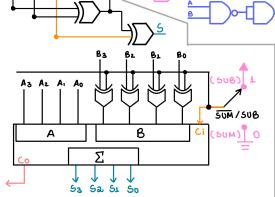
DECODIFICADOR 11 DECOD 2x4



Sempre existirá uma única entroda ativa por vez. Se i2=1, então a saída será 10 (2 em binário).

d1 = i3 + i2d0 = i3 + i2

No caso do Enable Output, a prioridade e' dada à entrada mais elevada. que tem um 1.



i3 i2 i1 i0 d1 d0 e

0 0 0 0 0 0 0 0

0 0 1 x 0 1

0 1 x x 1 0 1

1 x x x x 1 1 1

Ex.: Se as entradas i3 e i2 forem iguais (de modo que as entra das são 1010), a prioridade e dada a i3 e a saída proqueida

е́ 11.

0+11+51+61=9