

Sistemas Digitais

24/09/2018 - P

Exercícios práticos

$$10) A \cdot (A \cdot B + C)$$

$$= A \cdot A \cdot B + A \cdot C \quad T8$$

$$= A \cdot B + A \cdot C \quad T3$$

$$11) A \cdot B + A \cdot \bar{B} + \bar{A} \cdot \bar{B}$$

$$= \underline{\underline{A + A \cdot B}} \\ \times \quad \bar{x} \quad y$$

$$= A + \bar{B}$$

T12

T11

$$A \cdot B + A \cdot \bar{B} + \bar{A} \cdot \bar{B}$$

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

$$= A + \bar{A} \cdot \bar{B}$$

$$= A + \bar{B}$$

T4

T11

$$14) A \cdot B \cdot C + C \cdot A \cdot B + A \cdot B + A$$

$$= \underline{\underline{A \cdot B \cdot C}} + \underline{\underline{A \cdot B \cdot C}} + A \\ \times \quad \times$$

$$= A \cdot B \cdot C + A \cdot 1 \quad T2$$

$$= A(B \cdot C + 1) \quad T8/T1$$

1

$$= A$$

T6 / T10

T3

$$17) \overline{\overline{A \cdot \bar{A} \cdot B}}, \overline{\overline{B \cdot A \cdot B}}$$

T9

$$= \overline{\overline{A \cdot A \cdot B}} + \overline{\overline{B \cdot A \cdot B}} \quad T5$$

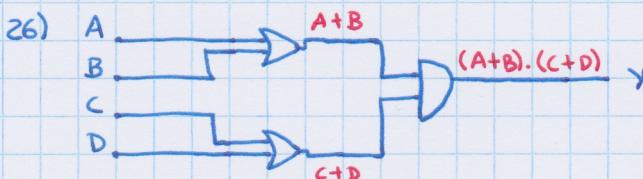
$$= A \cdot \overline{\overline{A \cdot B}} + B \cdot \overline{\overline{A \cdot B}} \quad T9$$

$$= A \cdot (\bar{A} + \bar{B}) + B \cdot (\bar{A} + \bar{B}) \quad T8$$

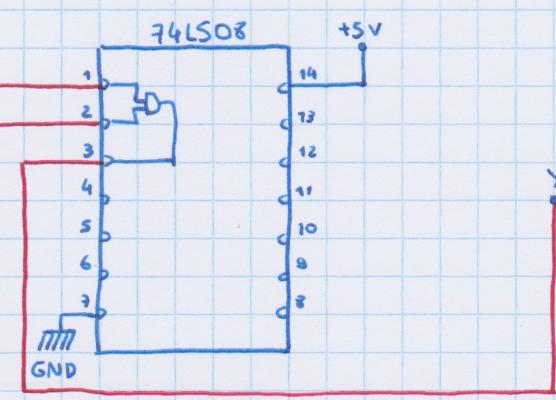
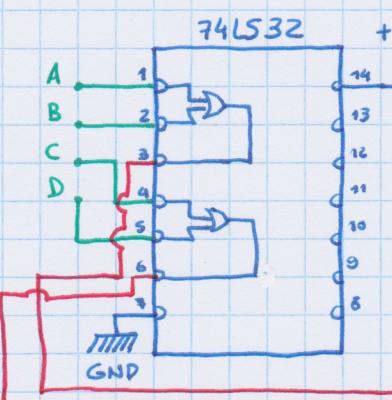
$$= \underline{\underline{A \cdot \bar{A}}} + A \cdot \bar{B} + B \cdot \bar{A} + \underline{\underline{B \cdot \bar{B}}} \quad T4$$

$$= 0 + A \cdot \bar{B} + B \cdot \bar{A} + 0$$

$$= A \cdot \bar{B} + B \cdot \bar{A}$$



$$(A+B) \cdot (C+D) \quad Y$$



28)

