

	\bar{C}	C	
\bar{B}	1	1	1
B	0	1	1
\bar{A}	1	1	1
A	0	0	1
\bar{D}	1	1	1
D	0	0	1

a expressão não pode dar duas interpretações para circuitos equivalentes

$$\bar{A} \oplus B$$

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

$$b) \begin{array}{cccc|c} A & B & C & D & S \end{array}$$

0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	0
0	1	1	1	1
1	0	0	0	0
1	0	0	1	0
1	0	1	0	1
1	0	1	1	0
1	1	0	0	1
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

$$S = \bar{A} \cdot \bar{D} + \bar{B} \cdot C \cdot \bar{D} + \bar{A} \cdot B + A \cdot B$$

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

A	B	C	D	$\bar{A} \cdot \bar{D}$	$\bar{B} \cdot (C \cdot \bar{D})$	$\bar{A} \oplus B$
0	0	0	0	0	0	1
0	0	0	1	1	0	1
0	0	1	0	0	1	1
0	0	1	1	0	0	1
0	1	0	0	0	0	0
0	1	0	1	0	0	1
0	1	1	0	0	0	0
0	1	1	1	0	0	1
1	0	0	0	1	0	0
1	0	0	1	0	0	0
1	0	1	0	0	0	1
1	0	1	1	0	0	0
1	1	0	0	0	0	0
1	1	0	1	0	0	1
1	1	1	0	0	0	0
1	1	1	1	0	0	1

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	\bar{C}	C	
\bar{A}	0	1	1
A	1	1	0
\bar{B}	1	1	0
B	0	1	1
\bar{D}	0	0	0
D	0	0	0

$$R = A.D + \bar{C}.D + B.C + \bar{B}.C$$

$$R = D(A + \bar{C}) + B.C + \bar{B}.C$$

$$4-) AD = PN + (SA.PA) + (SA.JA)$$

$$b) AD = PN + SA.(PA + JA)$$

$$a) \begin{array}{c|cccc} PN & SA & PA & JA & AD \end{array}$$

$$0 \quad 0 \quad 0 \quad 0 \quad 0$$

$$0 \quad 0 \quad 0 \quad 1 \quad 0$$

$$0 \quad 0 \quad 1 \quad 0 \quad 0$$

$$0 \quad 0 \quad 1 \quad 1 \quad 0$$

$$0 \quad 1 \quad 0 \quad 0 \quad 0$$

$$0 \quad 1 \quad 0 \quad 1 \quad 1$$

$$0 \quad 1 \quad 1 \quad 0 \quad 1$$

$$0 \quad 1 \quad 1 \quad 1 \quad 1$$

$$1 \quad 0 \quad 0 \quad 0 \quad 0$$

$$1 \quad 0 \quad 0 \quad 1 \quad 1$$

$$1 \quad 0 \quad 1 \quad 0 \quad 0$$

$$1 \quad 0 \quad 1 \quad 1 \quad 1$$

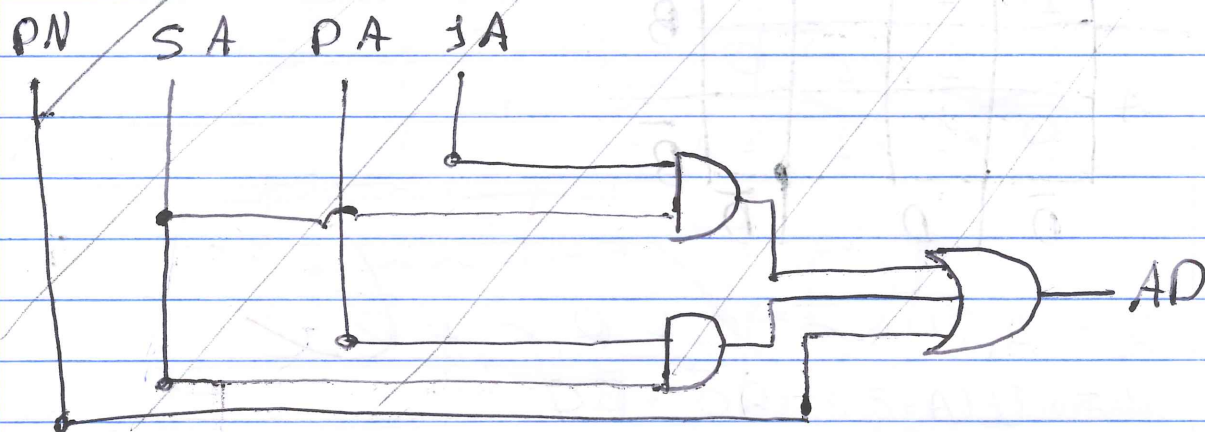
$$1 \quad 1 \quad 0 \quad 0 \quad 1$$

$$1 \quad 1 \quad 0 \quad 1 \quad 1$$

$$1 \quad 1 \quad 1 \quad 0 \quad 1$$

$$1 \quad 1 \quad 1 \quad 1 \quad 1$$

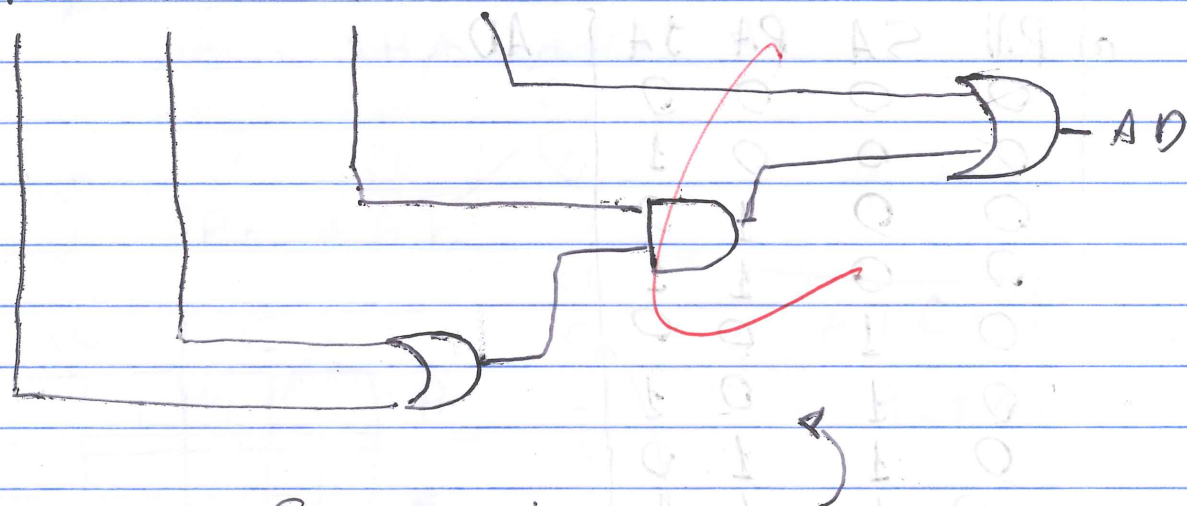
$$4-) AD = PN + SA \cdot PA + SA \cdot JA$$



~~5-)~~
$$4-) AD = PN + SA \cdot (PA + JA)$$

2)

PA JA SA PN



Favor considerar esta como
minha resposta

5-)

a) 7408, 7432, 7404