

Nome: Eduardo da Silva Dalino
Engenharia Mecatrônica RGM: 23829648

Système digital - AS.

$$S = \overline{A}BCD + A\overline{B}CD + \overline{A}B\overline{C}D + \overline{A}BC\overline{D} + \overline{A}B\overline{C}\overline{D} + \overline{A}BC\overline{D} + \overline{A}B\overline{C}D + \overline{A}BCD$$

Simplification: $S = \bar{A}$

$$2) S = \overline{A}BCD + \overline{A}BC\overline{D} + \overline{A}B\overline{C}D + \overline{A}B\overline{C}\overline{D} + \overline{A}B\overline{C}D + \overline{A}B\overline{C}\overline{D} + \overline{A}B\overline{C}D + \overline{A}B\overline{C}\overline{D}$$

Simplified: $S = \overline{AC} + AC$

$$3) S = \overline{A}B\overline{C}\overline{D} + \overline{A}B\overline{C}D + \overline{A}BC\overline{D} + A\overline{B}\overline{C}\overline{D} + A\overline{B}C\overline{D}$$

Simplification: $S = BD + \overline{A}BC\overline{D} + A\overline{B}CD$

$$4) S = \overline{A}B\overline{C}\overline{D} + \overline{A}BCD + A\overline{B}\overline{C}\overline{D} + ABC\overline{D}$$

Simplification: $S = \overline{A}BCD + \overline{A}BC\overline{D} + A\overline{B}CD + A\overline{B}C\overline{D}$

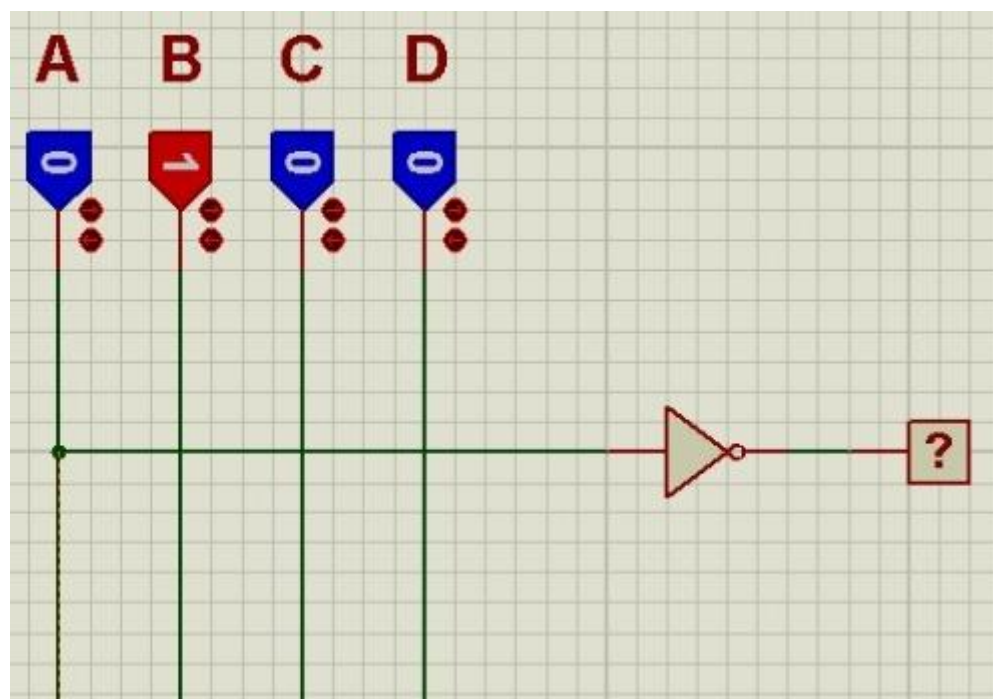
[illegible]

Simplificada: $S = C + \bar{D} + \bar{A}$

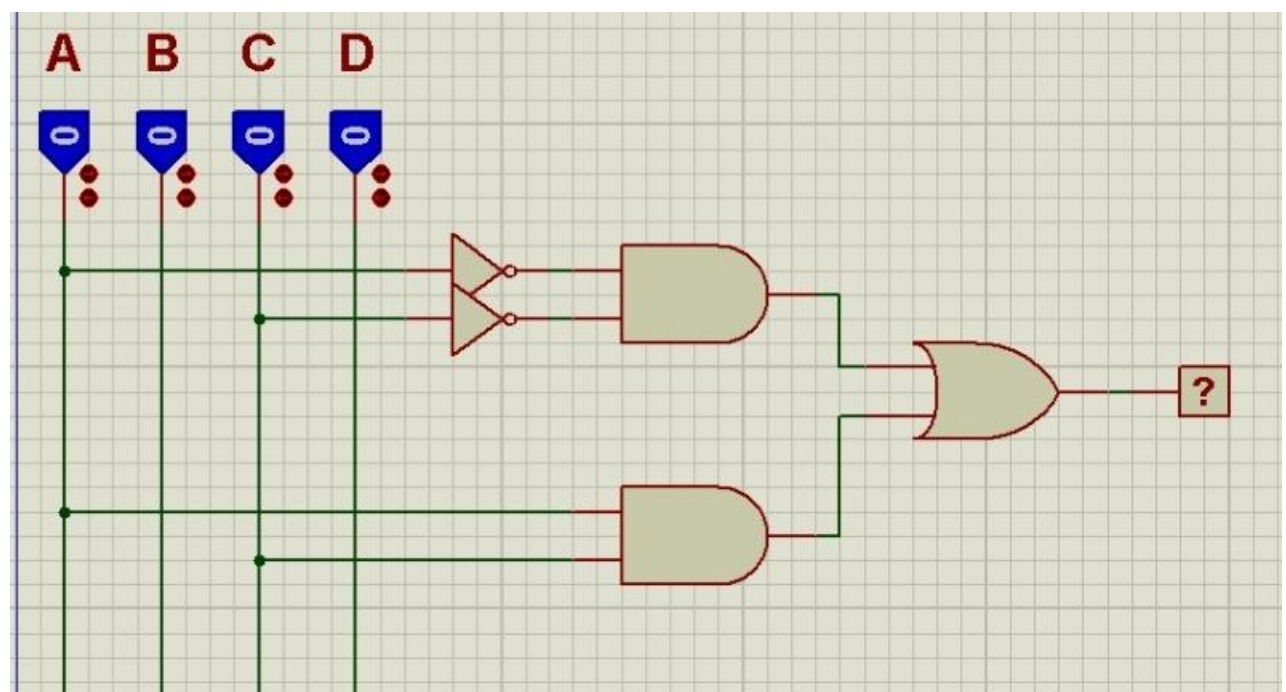
$$6) S = \overline{A}BCD + \overline{A}BC\overline{D} + \overline{A}B\overline{C}D + \overline{A}B\overline{C}\overline{D} + \overline{A}B\overline{C}D$$

Simplificando: $S = \overline{B}D + A\overline{C}D$

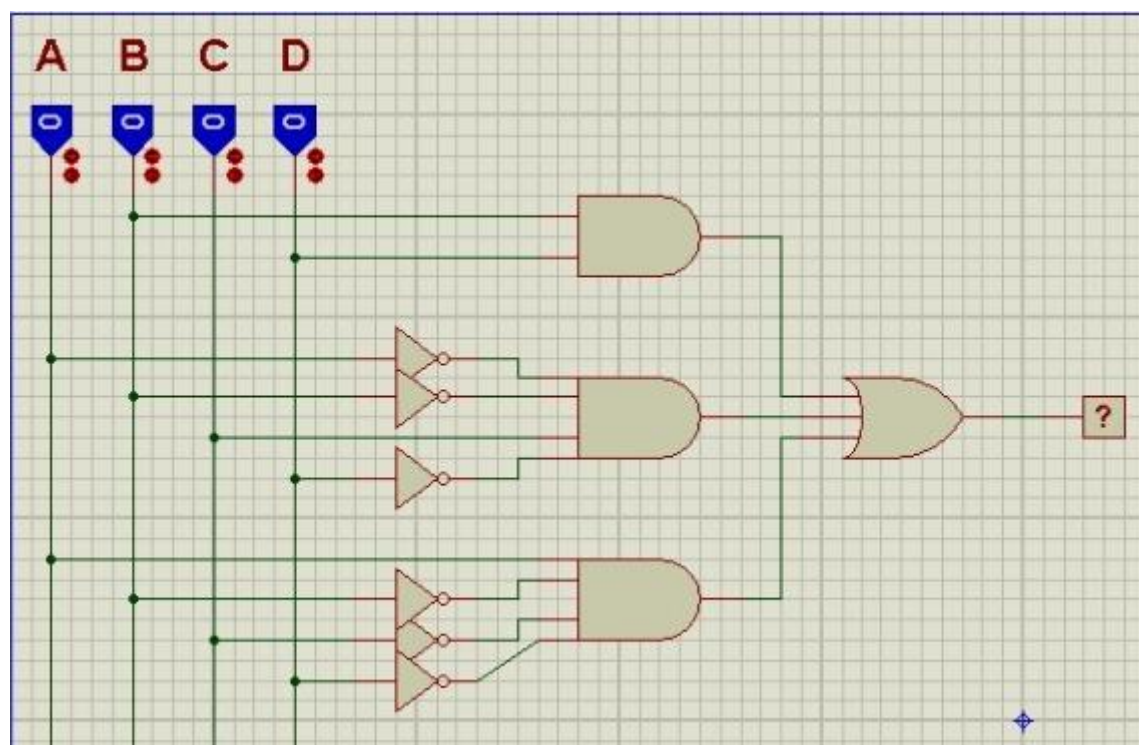
EXERCÍCIO 1					
A	B	C	D	S	
	0	0	0	0	1
	0	0	0	1	1
	0	0	1	0	1
	0	0	1	1	1
	0	1	0	0	1
	0	1	0	1	1
	0	1	1	0	1
	0	1	1	1	1
	1	0	0	0	0
	1	0	0	1	0
	1	0	1	0	0
	1	0	1	1	0
	1	1	0	0	0
	1	1	0	1	0
	1	1	1	0	0
	1	1	1	1	0



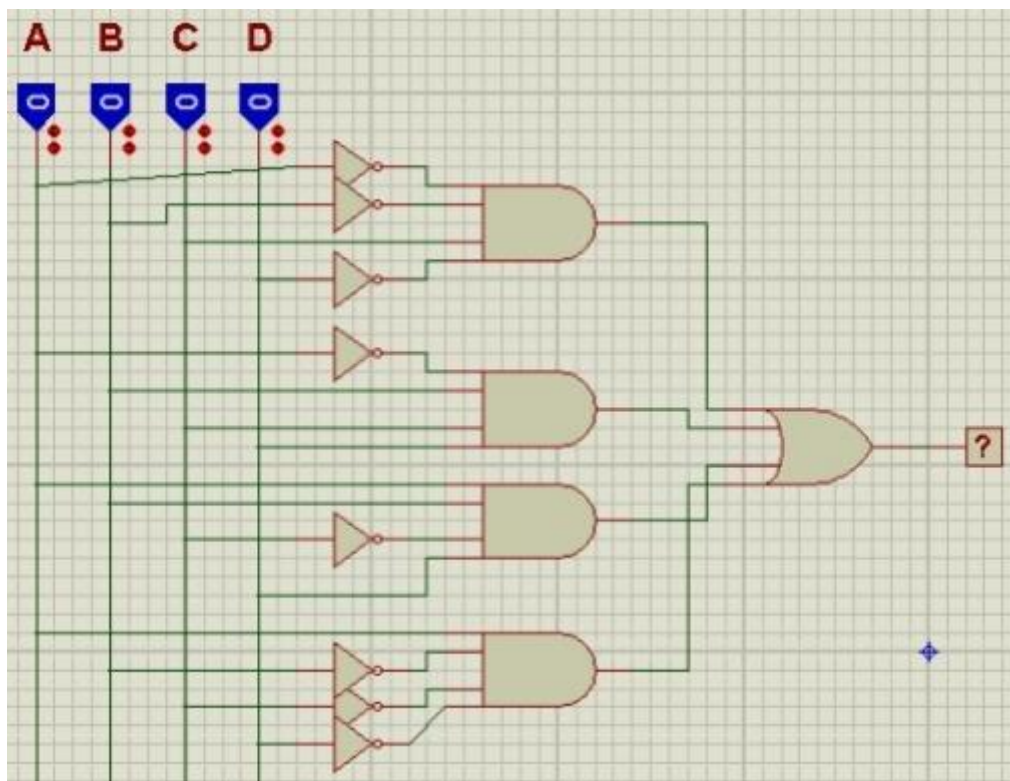
EXERCÍCIO 2					
A	B	C	D	S	
	0	0	0	0	1
	0	0	0	1	1
	0	0	1	0	0
	0	0	1	1	0
	0	1	0	0	1
	0	1	0	1	1
	0	1	1	0	0
	0	1	1	1	0
	1	0	0	0	0
	1	0	0	1	0
	1	0	1	0	1
	1	0	1	1	1
	1	1	0	0	0
	1	1	0	1	0
	1	1	1	0	1
	1	1	1	1	1



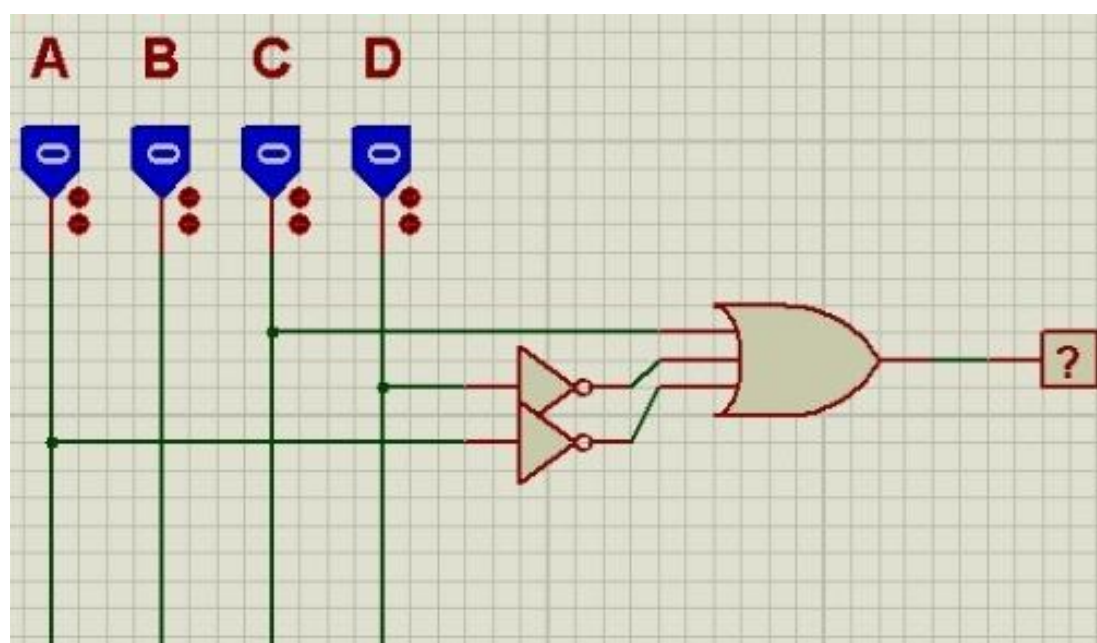
EXERCÍCIO 3					
A	B	C	D	S	
	0	0	0	0	0
	0	0	0	1	0
	0	0	1	0	1
	0	0	1	1	0
	0	1	0	0	1
	0	1	0	1	0
	0	1	1	0	0
	0	1	1	1	1
	1	0	0	0	1
	1	0	0	1	0
	1	0	1	0	0
	1	0	1	1	0
	1	1	0	0	0
	1	1	0	1	1
	1	1	1	0	0
	1	1	1	1	1



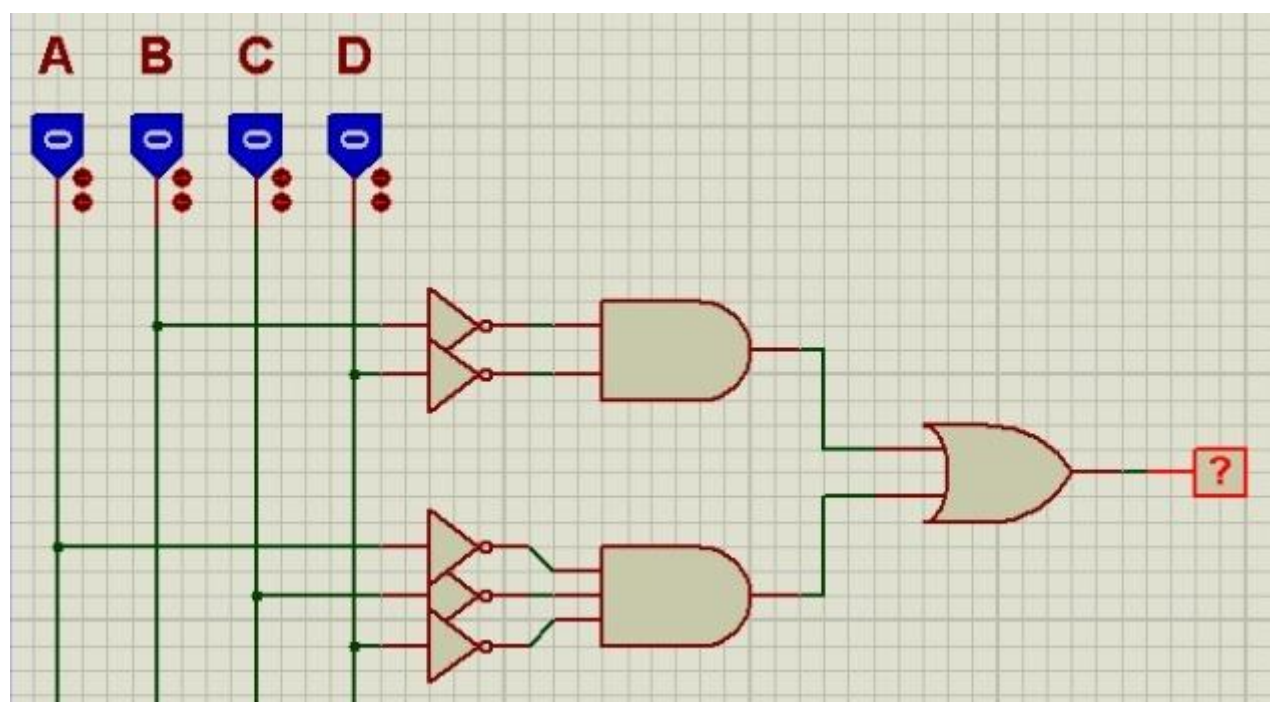
EXERCÍCIO 4					
A	B	C	D	S	
	0	0	0	0	0
	0	0	0	1	0
	0	0	1	0	1
	0	0	1	1	0
	0	1	0	0	0
	0	1	0	1	0
	0	1	1	0	0
	0	1	1	1	1
	1	0	0	0	1
	1	0	0	1	0
	1	0	1	0	0
	1	0	1	1	0
	1	1	0	0	0
	1	1	0	1	1
	1	1	1	0	0
	1	1	1	1	0



EXERCÍCIO 5					
A	B	C	D	S	
	0	0	0	0	1
	0	0	0	1	1
	0	0	1	0	1
	0	0	1	1	1
	0	1	0	0	1
	0	1	0	1	1
	0	1	1	0	1
	0	1	1	1	1
	1	0	0	0	1
	1	0	0	1	0
	1	0	1	0	1
	1	0	1	1	1
	1	1	0	0	1
	1	1	0	1	0
	1	1	1	0	1
	1	1	1	1	1



EXERCÍCIO 6					
A	B	C	D	S	
	0	0	0	0	1
	0	0	0	1	0
	0	0	1	0	1
	0	0	1	1	0
	0	1	0	0	1
	0	1	0	1	0
	0	1	1	0	0
	0	1	1	1	0
	1	0	0	0	1
	1	0	0	1	0
	1	0	1	0	1
	1	0	1	1	0
	1	1	0	0	0
	1	1	0	1	0
	1	1	1	0	0
	1	1	1	1	0



7)

