#### : 10 extrang

$$a^{7} + a^{5} + a^{4} + a^{3} + a^{2} + a^{0}$$

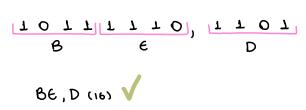
$$= 128 + 32 + 16 + 8 + 4 + 1$$

$$= 0,5 + 0,25 + 0,0625$$

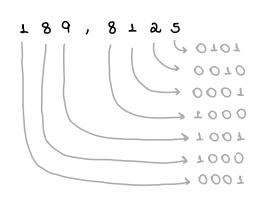
$$= 0,8125$$

b) The simplest and essent themselves to convert meny treens and tesisal local instance and form of the convert method is still by just a local neighbors and princes and princes and princes and the convert method is still be the princes and the convert method is such as the convert method is such as the convert method is the convert method in the convert method in the convert method is the convert method in the convert method in the convert method is the convert method in the convert method in the convert method is the convert method in the convert method in the convert method is the convert method in the convert method in the convert method is the convert method in the convert method in the convert method is the convert method in the convert method in the convert method is the convert method in the convert method in the convert method is the convert method in the convert method in the convert method is the convert method in the convert method in the convert method is the convert method in the convert method in the convert method is the convert method in the con





C) Binary Code Decimal (BCD) → number was 4 Jaita that represent one secimal slight.

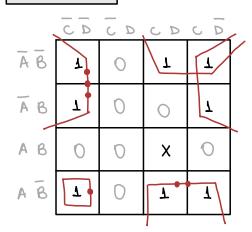


purement from about to the table of the transport of the table of tab



0001 1000 1001 , 1000 0001 0010 0101 (8cp)

# : 60 extreue



$$\overline{B}C + \overline{A}\overline{D} + A\overline{B}\overline{C}\overline{D}$$

Sartel



## Questão 3:

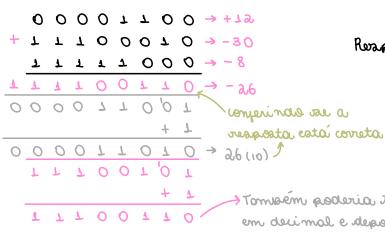
#### · virània

8(10) = 1000(2) → Sem 8 Naitra: 00001000

Fazenau complemente de 2 0/ acros o -30:

Fazindo complemento de 2 para aviar -8:

(8-) + (05-) + (51+) ergianista a resport acumenta area



57 s6 s5 s4 s3 s2 s1 s0

em decimal e depois simplemente em decimal e depois simplemente fozor complemento als à als + 36 para encon-

## heraderimal:



The hexadecimal value of a negative decimal number can be obtained starting from the binary value of that decimal number positive value. The binary value needs to be negated and then, to add 1. The result (converted to hex) represents the hex value of the respective negative decimal number. 14 de few de 2003

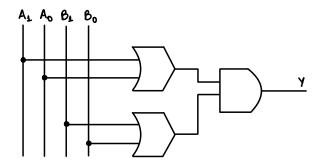
# : 4 evatreul

 $A = A_1 A_0 \Rightarrow a$  baits  $B = B_1 B_0 \Rightarrow a$  menorea que 3 (10)

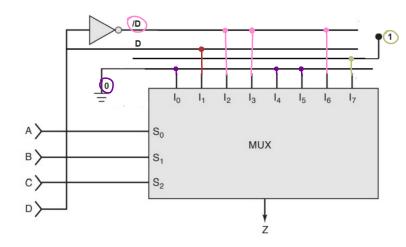
Y sousa a semocrita, O < 8 x A x B > O, ativomosa a saúda Y

Division a 00=8 va. 00=A superaction of the contract 0 and 0 and 0.

are see scansque 0 à la super strag a land 0? O mere exalacentre 0?



# coatreus:



mintermoa:

states and staboarths are abnown, between 2 - 1 = 5 and somerapped such 5 = 5. Easy rest such 5 = 5.

$$y = f sop (D, C, B, A) = \{a, 3, 6, 7, 9, 15\}$$



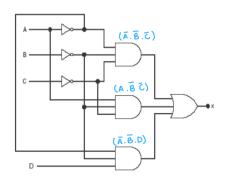
#### Expandindo ea mintermoa.

$$Y = \overline{DCBA} + \overline{DCBA} + \overline{DCBA} + \overline{DCBA} + \overline{DCBA} + \overline{DCBA}$$

$$\frac{15}{4}$$

$$\frac{1}{4}$$

### Questão 6:



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

• 
$$\overline{ABC} = (D+\overline{D}) \overline{ABC} = \overline{ABCD} + \overline{ABCD}$$

• 
$$\overrightarrow{ABC} = (D + \overline{D}) \overrightarrow{ABC} = \overrightarrow{ABCD} + \overrightarrow{ABCD}$$

• 
$$\overline{ABD} = (C+\overline{C})\overline{ABD} = \overline{ABCD} + \overline{ABCD}$$

$$y = \overline{A}\overline{G}\overline{C}D + \overline{A}\overline{G}\overline{C}\overline{D} + A\overline{G}\overline{C}D + A\overline{G}\overline{C}\overline{D} + \overline{A}\overline{G}\overline{C}D$$

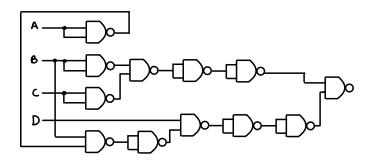
$$0001 \quad 0000 \quad 0110 \quad 1000 \quad 0011$$

$$8 \quad 3$$

 $Y = f_{SOP}(A_1B_1C_1D) = \{0,1,3,6,8\}$ 

			[	CD	
	,	0 0	101	7 7	17 0
ĀB	0	E L	1	3	O
ĀBO	) 1	0	O	,	4
ABJ	. T	· O	0	9	0
ABJ	. 0	1	O	0	0
		1			

RESPOSTA:



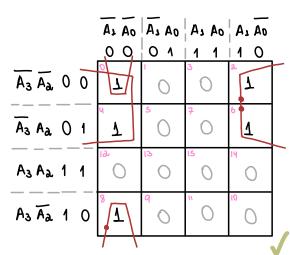
: was judgmia anoslovat via carang x3

$$Y = \overline{A}BC\overline{D} + \overline{B}\overline{C}\overline{D} + \overline{A}\overline{B}D$$

## auestão 7:

$A_3$	$A_2$	$A_1$	$A_0$	$C_3$	$C_2$	$C_1$	$C_0$	
0	0	0	0	1	0	0	1	→ g -o = g
0	0	0	1	7	0	0	0	$\Rightarrow \partial - 7 = 8$
0	0	1	0	0	7	1	1	→ g-a=7
0	0	1	1	0	1	1	0	→ 9-3=6
0	1	0	0	0	T	0	7	→ q-4=5
0	1	0	1	0	T	0	0	→ q-5=4
0	1	1	0	0	0	1	1	→ q-6 = 3
0	1	1	1	0	0	1	0	→ q - 7 = &
1	0	0	0	0	0	0	T	→ 9-8=1
1	0	0	1	0	0	0	0	$\rightarrow q - q = 0$
1	0	1	0	X	X	X	X	
1	0	1	1	X	X	X	X	
1	1	0	0	X	X	X	X	) be as a
1	1	0	1	X	X	X	X	Em BCD
1	1	1	0	X	X	X	X	woog aa
1	1	1	1	X	X	X	X	ote 9(10)
				11	11	Λ	1	

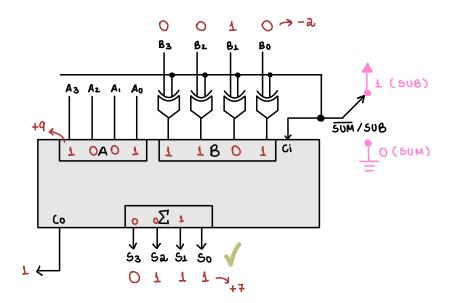
mintermes da saída Co: 0,2,4,6,8



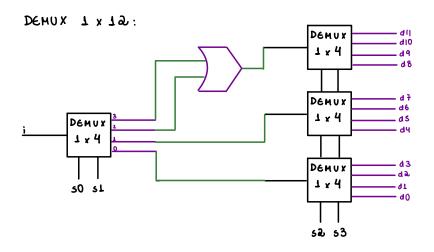
Em BCD,

Co = Aa Ai Ao + A3 Ao ratneserger semiloeg as . artial P mas (01) P sta

# evataeus

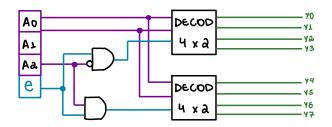


## eistreus



# : OL võtaeub

#### DECOD 8x3



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