The Peter Ceistran Gruja 133

16.01, 2021 peter.ilie 9 s. unilous so

Examen ASC

1.
$$x = 125$$
, $y = 48$

a) $(125)_8 = ?$
 $125 : 8 = 15$ seed 5

 $15 : 8 = 1$ seet 4

 $1:8 = 0$ seet 1

 $\Rightarrow (125)_8 = (175)_8$
 $(78)_8 = ?$
 $48 : 8 = 9$ seet 6

 $9:8 = 1$ seet 1

 $1:8 = 0$ seet 1

1/11

$$D)x = (175)_{8}^{2} = 001$$

$$(7)_{8}^{2} = 001$$

$$(7)_{3}^{2} = 101$$

$$(111101)_{2}^{16} = (70)_{16} = X$$

$$(111101)_{2}^{16} = Y$$

$$(1101)_{2}^{16} = Y$$

$$(1101)_{3}^{16} = Y$$

$$(1101)_{3}^{16} = Y$$

$$\frac{1}{3} = (1001110)_{2}^{16} = ?$$

$$(0100)_{2}^{16} = 4$$

$$(1110)_{2}^{16} = E$$

$$(1110)_{2}^{16} = E$$

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$$(1110)_{3}^{16} = E$$

$$(1110)_{4}^{16} = E$$

$$(1110)_{5}^{16} = (75)_{5} = (70)_{16}$$

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$$(11$$

2) Z = X-y pe 8 leiti => multimea valorilos este f-128, ..., 1276 x, y e multimii de valori si sunt positive =, le rejerentam in basa 2 (calculat anterior la le)) X = 1111101 p = 1001110 Calculain conflemental lui y fater de 1 apri 2: => y complemental his y fater de 1 = 0110001 = 110001 => complemental lui y fata de 2 = 110010 Apri adunam x la lamplemental lui y fator de 2 : 7111101 + 110010 = 10101111 (10101111) = 2+2+2+2+2+2+2+2+2+2+2+2+128= Cel moi semnificative doit este 1=> ensem sexultant 4/11

Format single
$$=> n = 32$$

$$K = 8 => E_{mop} = BIAS == 127$$

$$E_{min} = -126$$

$$h = n - K = 24 => |p| = 23 (ng.)$$
de ciffe al mention)

$$C = 1100$$

$$2 = 0010$$

$$3 = 1001$$

$$A = 1010$$

$$0 = 0000$$

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$$(9)_{2}^{-1} = \underbrace{(0,001\,1010)}_{2}^{-1} = \underbrace{3}_{4}^{1} + \underbrace{1}_{16}^{1} + \underbrace{1}_{32}^{1} = \underbrace{3}_{32}^{1} = \underbrace{11}_{32}^{1} = \underbrace{3}_{32}^{1} = \underbrace{11}_{32}^{1} = \underbrace{0,34375}_{2}^{2} = \times = (-1)^{1} \cdot 2^{6} \cdot \underbrace{1,0011010}_{2} = (-1)^{6} \cdot 64 \cdot 1,34375 = \underbrace{11}_{32}^{1} = \underbrace{11}_{32}^{1}$$

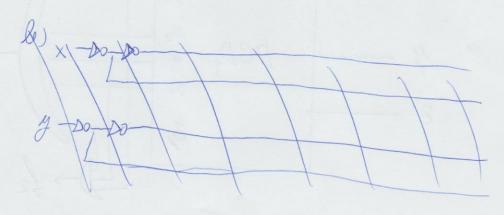
z (-1). 86 z -86 (număsul cerut)

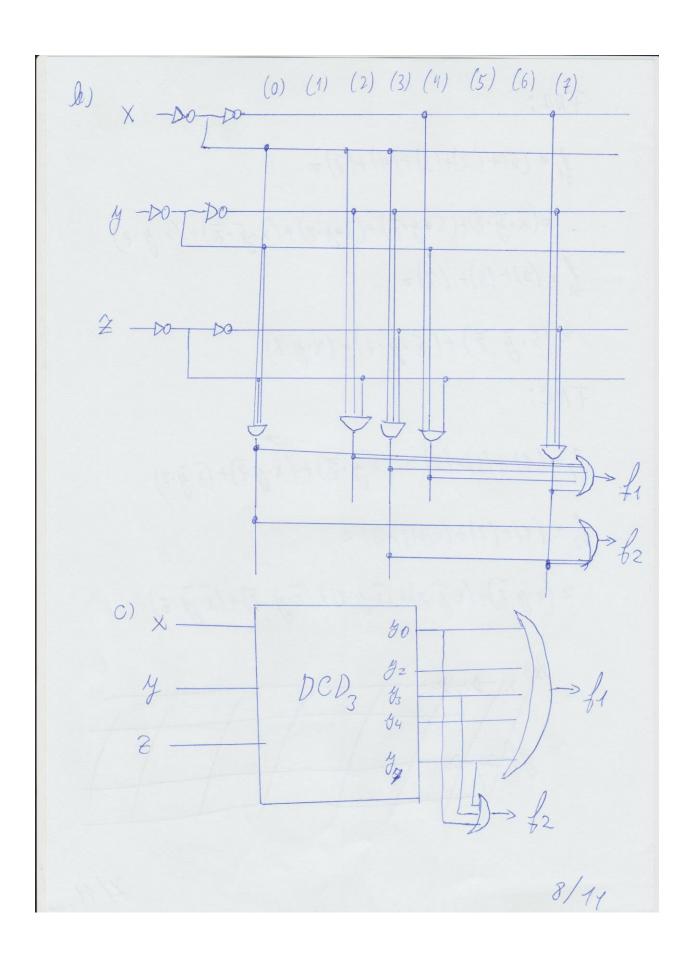
2. a)

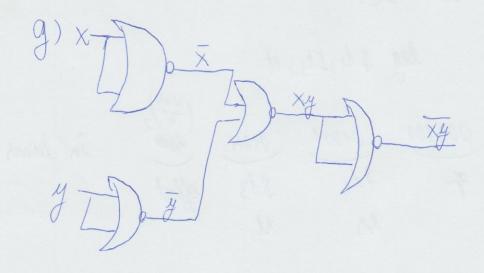
Nei X	y	7	X	y	2	XŽ	季田艺	fi	x+4	罗田会	f2
(0)	0	0	1	1	1	1	1	1	1	1	1
(1) 0	0	1	1	1	0	0	0	0	1	0	0
(2) 0	1	0	1	0	1	1	0	1	1	0	0
(3) 0	1	1	1	0	0	9	1	1	1	1	1
(4) 1	0	0	0	1	1	0	1	1	0	1	0
(5) 1	0	1	0	1	0	0	0	0	0	0	0
(6) 1	1	0	0	0	1	9	0	0	1	0	0
(7) 1	1	1	0	Q	e	0	1	1	1	4	1
	3/3				5 %	27-55			23.03	- D	6/11

FNC:

$$\int_{1}^{2} z(1) + (5) + (6) = (x \cdot y \cdot \overline{z}) + (\overline{x} \cdot y \cdot \overline{z})$$







3. a) Alt \$13, \$12, \$13

Agai transform in haka:

Z) 0143582A

Penten beg: leg \$ t1, \$ t3, et 1128... ryrenental hemon, variabilité en functie de « (d) (e) ALU 10 5 Branch 300 Initial 10/11

	ALU	ALU	Reg	PC	\$t3	
Initial				X	(4)	
slt	100	111	1	d	(-1)	
beg	1	110	0	<	?	

11/11