(1) 12 GRAFA OTITAMO TABLICO OVSETAIN VSEROSATAOSTI;

$$[P(Y|X)] = x [0.5 \ 0.5 \ 0.5 \ 0]$$

$$[P(X|X)] = x [0.5 \ 0.5 \ 0]$$

$$[P(X|X)] = [P(X) = [P, P_2]$$

[P[4]] = [0.5P, 0.5P, P2]

C= max 1(x; Y)

(1) 1(X;Y)= H(X)+H(Y)- H(X,Y)

H(x, y)= - \(\frac{1}{2} \) \(\frac{1} \) \(\frac{1} \) \(\frac{1}{2} \) \(\frac{1}{2} \) \(\fra

HODE SE OND IZENEURO, POBLE SE DA JE HIT = H(XIT) \$70 SE note VIDIETI I POZNATON DECURTIVEM METERAN

BUDUET OR JE HITT- HIX, 1) 12 (1) SCHEDI DA JE

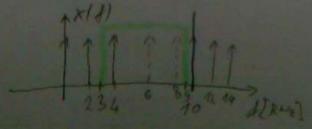
1 (X: Y) = H(X)

C= max (x:1) = mutt(x) = log, m = log, 2=1 lits

- Extension JE HANNEIS MARS SU VJERNINGNOSSI PRIORESIVALIA SUIN SIMBOLA JEOLORE TROO UE ENTERPISE HI(X) = logg & GRIE JE n BROS GREENIN SITTER

12 FREHVENCIA PERMINDUS POSEDINOS SIMBOLA TEGRO 18ASTURATI WERDSATHOSTI POSEULIVERSE SUDUAL, H(x)= - \$ P(xi) loge P(xi) = [2.4578 lit/sinbol (3) f= 2RHZ T = 1 1. NACRIOII SPENIER (JEONOSTRON) PROFONDE IMPULSO. PROVOUNTLY IMPULS IMA HOMPONELLA MADA VRISEDI 2. NAMON PROLOSUS KROZ NPF GUNIENE FRENCHENENE AS = Stur OSTAJE 4. Proposiono ovo MROZ PAR Le = 6242, 73. BE[3, DRIVE

\$ [17 42] OUD VEDERWETTO S de 102mg:



Guerrano ano 370 SE INSTA 3 1 9 242.

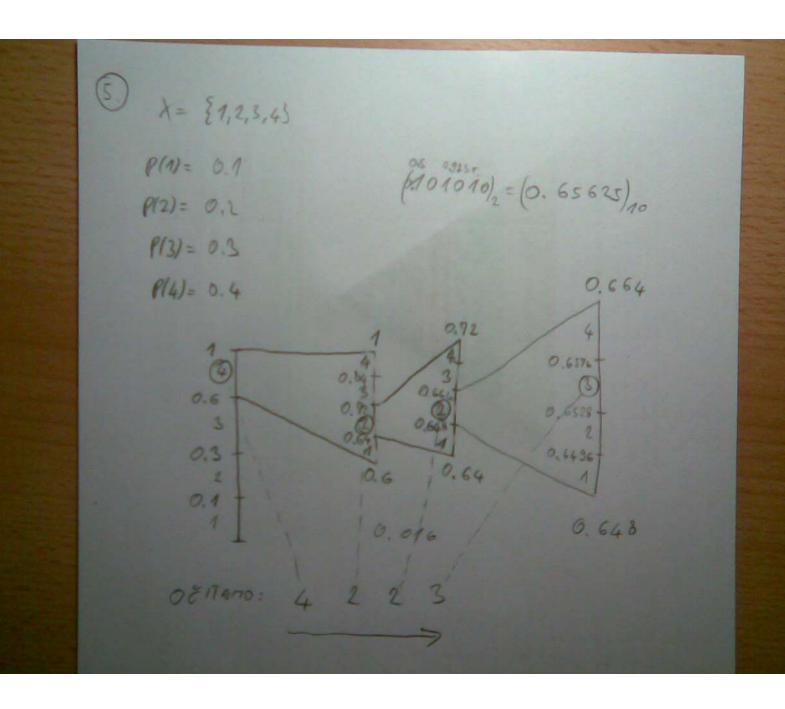
OSTALE SU MOMPORENTE NA 4, 6 ; 8 RHZ.

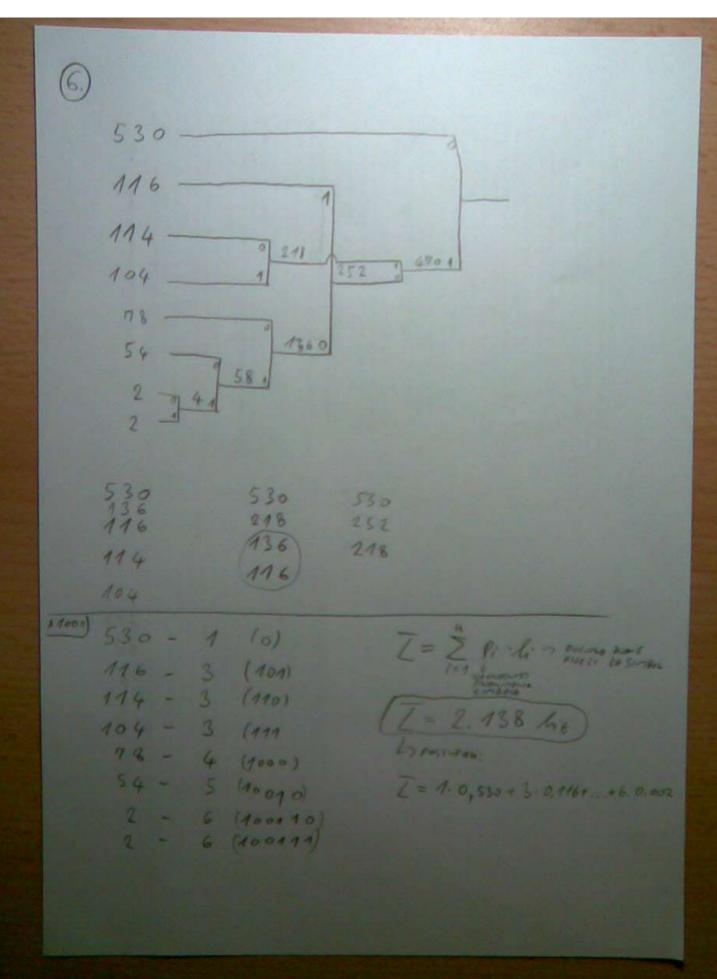
$$S_{N} = 4 \times H_{E}$$

$$S_{N} = 10^{-12} \frac{W}{H_{E}} \Rightarrow \frac{N_{0}}{2} = 10^{-12} \frac{W}{H_{E}} \Rightarrow N_{0} = 2.10^{42} \frac{W}{H_{E}}$$

$$N = 10^{-12} \frac{W}{H_{E}} \Rightarrow \frac{N_{0}}{2} = 10^{-12} \frac{W}{H_{E}} \Rightarrow N_{0} = 2.10^{42} \frac{W}{H_{E}}$$

$$N = 10^{-12} \frac{W}{H_{E}} \Rightarrow \frac{N_{0}}{2} = 10^{-12} \frac{W}{H_{E}} \Rightarrow N_{0} = \frac{2.10^{42} \frac{W}{H_{E}}}{10^{-6} \text{ m/m}}$$





(7.) [15, E) 9(x)= x4+x3+1 4= 17- 2 4=15-1 = 2=11 [400 [15,11]) PEND RIVET NO VLOSHU U HODER JE: 1010101010101 Sd(x)= x10+ x8+ x0+ x4+ x2+1 $Y|X| = \frac{X^{n-\lambda} \cdot d(x)}{g(x)} = \frac{X^{4} \cdot (X^{4} \cdot x^{3} + X^{6} + X^{4} + X^{2} + 1)}{X^{4} + X^{3} + 1}$ V(X)= X14+X12+X10+X8+X6+X4 x14+ x12+ x10+ x6+ x6+ x4: x4+ x3+1= x10+ x3+ x5+ x2+1 X"+ X" + X" + X" + X" X 6 X13 + X1 + X9 X + X 5 + X 6 X5 + X8 + X5 X + X + X 4 X6+ X5/ + X2 X44 V2 X9+X3+1 X3+X2+1 > [1101]

JEONBUE UJEROJOTNOSTI POJEKUNDAJA SVOHOG XI

4 BUDULI DA SU VJERNISTROSTI POJENLINGUAS JEDNINE 20 SUBUL SIMBOL NO ULDEU, SEE HOOME RIJEZI BIT EE JEOMANE PULSINE, TJ. JEOMANE OULSING 480 DA SMO IN MODIRALI JEDNOLIUM MODOM

DA BISMO MODIRELI 2048 SIMBOLA, TREBO NAM [11) BITA JER JE 2 1 = 2048.

ULAZAN RIJET OD 11 BITA GODIEMO GULITLIM MODOM 5 g(X)= X4+X+1. 20 CIULIZNE MODORE VRISEDI DO JE NOVISO POTENCIJO g(x) JEDNOUS D-A GOSE JE N PULSIFE MODILETE RISEET, & PULSING MORISE OF DISELS PORME. U NOSEM SCUTOSU:

-- 74 - n-11 => [n=15] 4 RISEY 400 IMAG CHEITHAM 4000M MOU SOLVETTO U MOTURINGEISSAI

MENDE DUED JE 15 B170 U 1 SEMUNDI 3000ENO 4000 400014 RIJEZI, TJ.

4,000 . 15 6119 = 60000 BITS => C = 60000 BITS

C= B. log2 (2+1)

B= logr (1+ 5) logn = 3.5

B= 60000 = 5160.3 Hz = 103 = 3162,28)

Elde = 35 dB 35 dB = 10 logon

(S) (S)

[A]AAABBBCCOA (O,O,A)

MAAABBBCCOA (1,3,B)

DAAA BBB (COX (1,2,C)

AAAA BBB CK, Dx (1,1,0)

AAAA (BBB (C 0) (0, 0, x)

RJESENE: (0,0, N), (1,3,B), (1,2,C), (1,1,0), (0,0,x)

(10) P[Q] = A

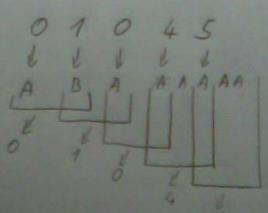
0[1] = B

0/2] = AB

0[3] = BA

014) = AA

DE 40011000E



WOOIRANE :

ABA AAAA

0(2) = AB

D(3) = BA

0 [4] = A O

OIS) = ABB

PLESENSE: ABAAAAA)