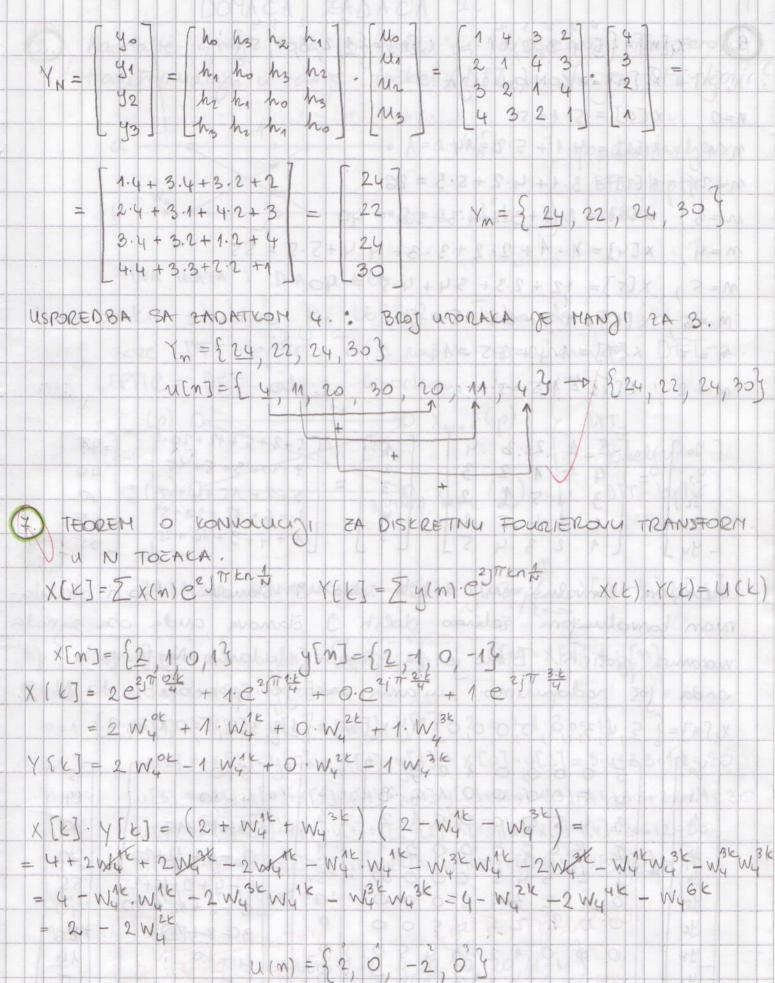
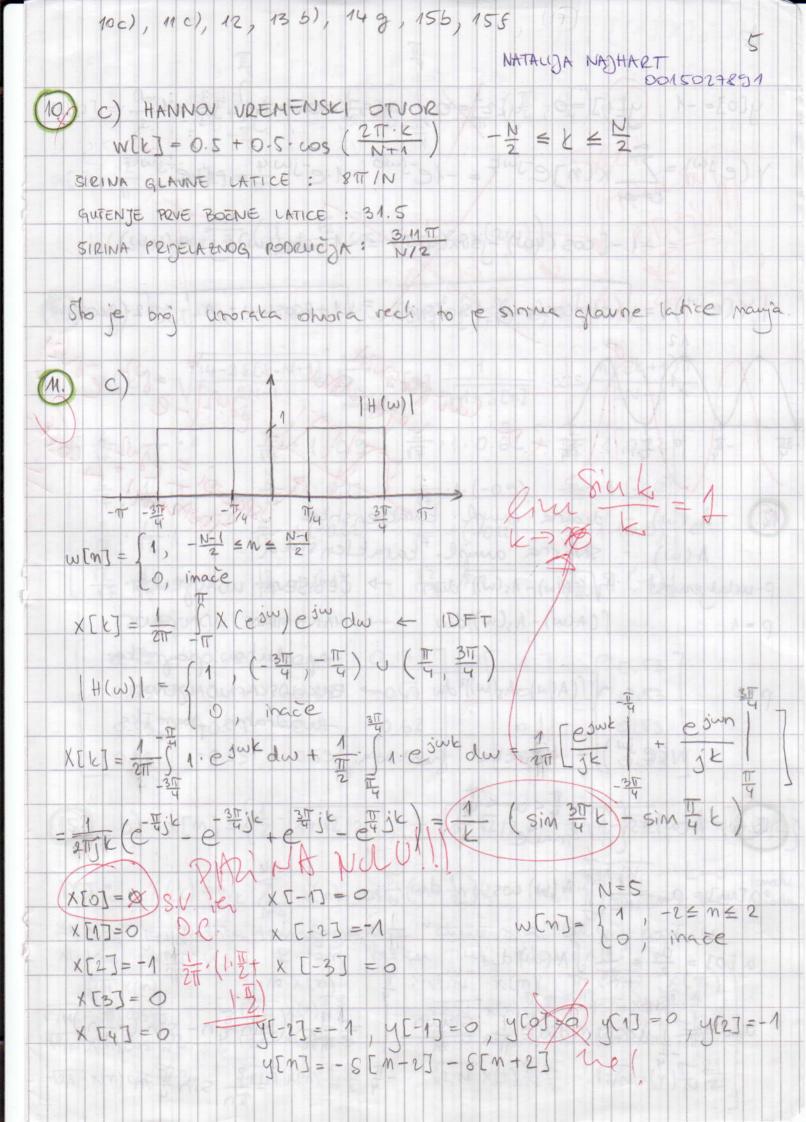


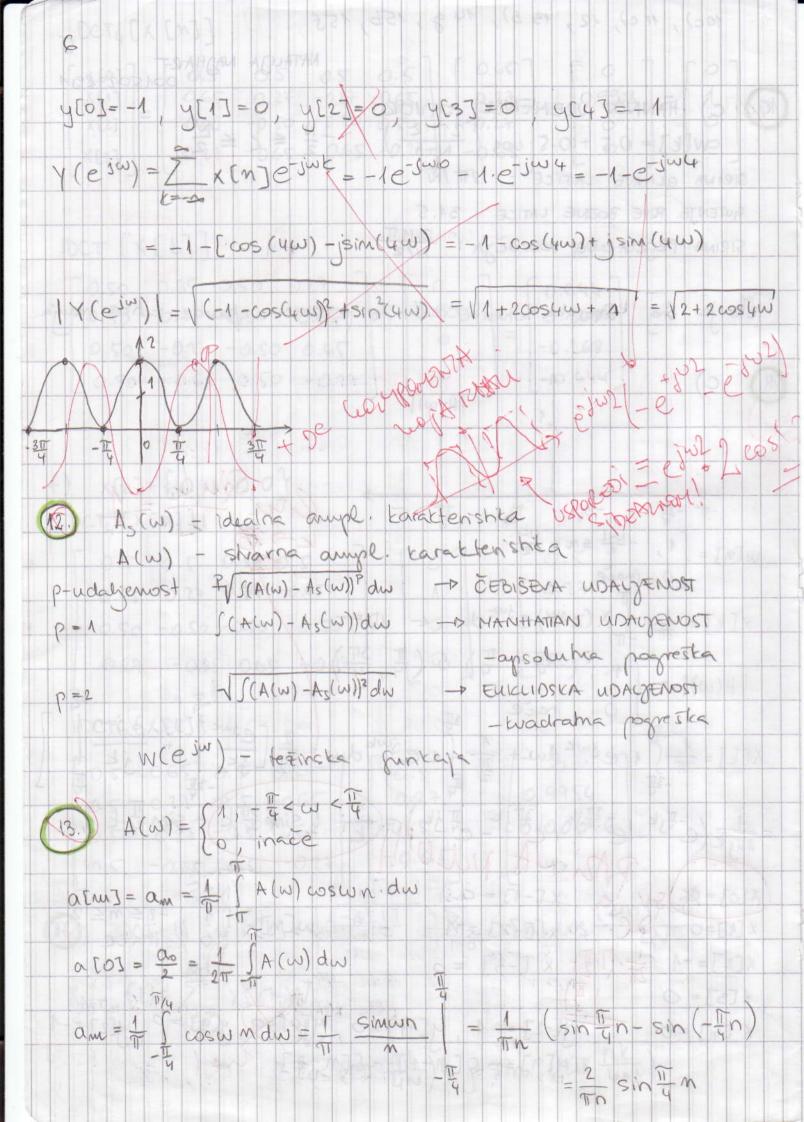
12 18 31 20 3100 CONVOLUCION ZA VREMENSKI DISKRETNU FOURIEROVU TRANSFORMACIAL: X, CM3 x X2[M] - O X, [Z] · X2[Z] X, EN] + X2[n] = X, (e)w). X2 (esw) $x_1[n] = \begin{cases} 2^{-n}, & n \ge 0 \\ 0, & \text{inace} \end{cases}$ $x_2[n] = \begin{cases} 3^{-n}, & n \ge 0 \\ 0, & \text{inace} \end{cases}$ a" µ [n] -0 1-aevw, la/<1 $X_1(e^{j\omega}) = \frac{1}{1 - \frac{1}{2}e^{-j\omega}}, \quad X_2(e^{j\omega}) = \frac{1}{1 - \frac{1}{3}e^{-j\omega}}$ $X_1(e^{jw}) \cdot X_2(e^{jw}) = \frac{1}{1 - \frac{1}{2}e^{jw}} \cdot \frac{1}{1 - \frac{1}{2}e^{jw}} = \frac{A}{1 - \frac{1}{2}e^{jw}} + \frac{B}{1 - \frac{1}{2}e^{jw}}$ A- 1 Ae-5w+B-1Be-5w=1 + e-5w(-3A-2B)+A+B=1 $\frac{1}{3}A + \frac{1}{2}B = 0/6 \rightarrow 2A + 3B = 0 \rightarrow B = -\frac{2}{3}A$ $X(e^{j\omega}) = \frac{3}{1 + \frac{1}{2}e^{-j\omega}} + \frac{2}{1 - \frac{1}{3}e^{-j\omega}}$ $\frac{1}{3}B = -\frac{2}{3} - \frac{1}{3}B = -\frac{2}{3}$ A = 3 $\times [n] = (3.2-n + 2.3-n) \mu[n]$ 6) b) X[n] = {1,2,3,4}, 4], 4[n] = {4,3,2,1} Circularmom ili knizmom konvolucijom ranvamo 1 penodu periodiche konvolucije y[n] = [u(j)·h(mod[n-j]) yn = 5 honod (n-k) · uk

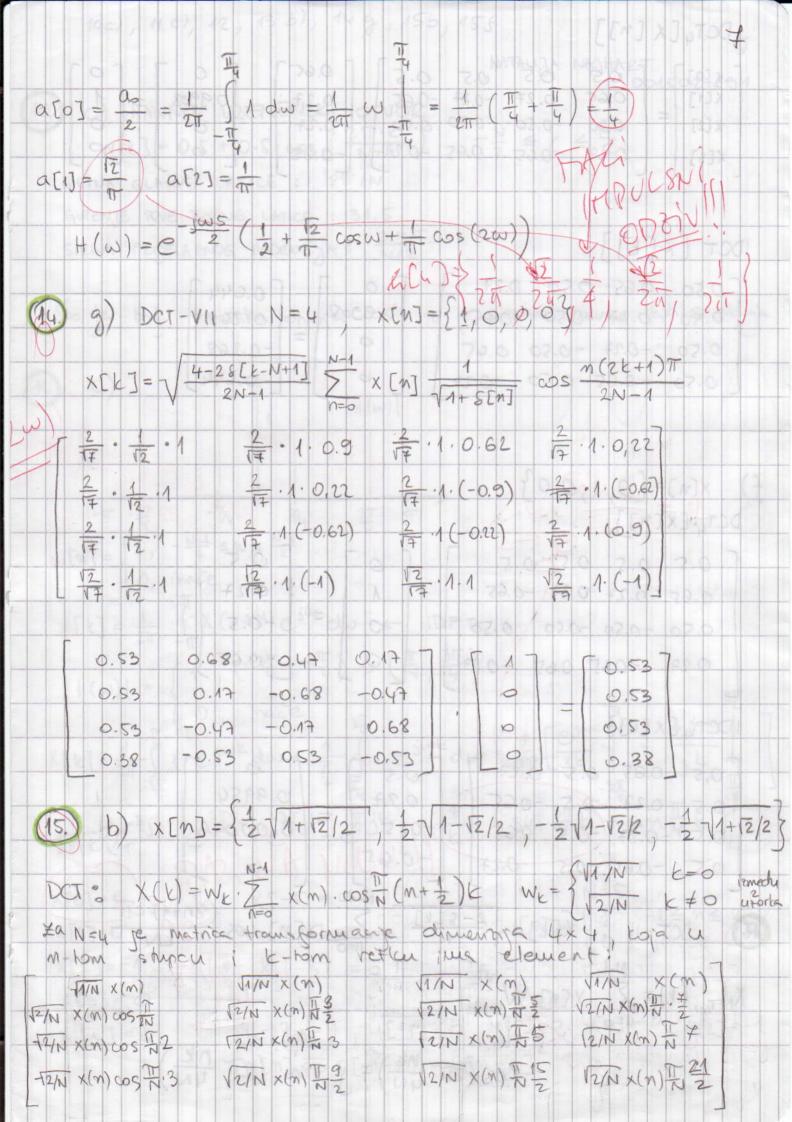
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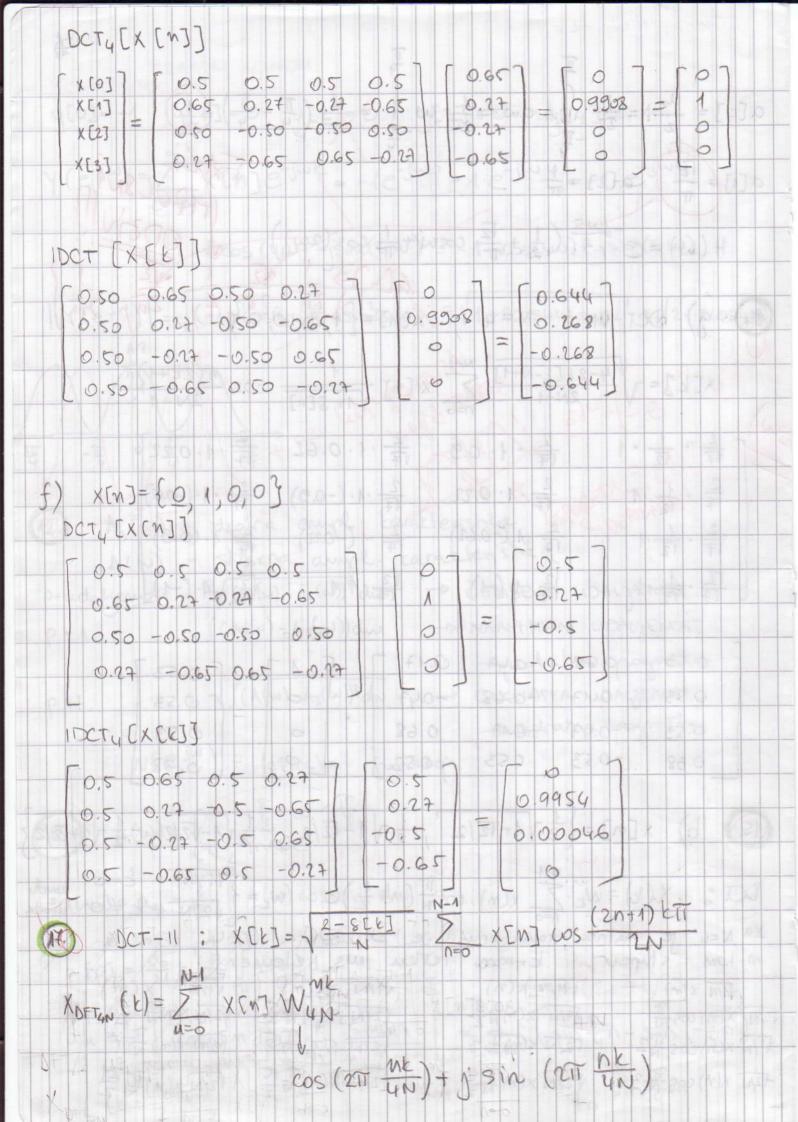


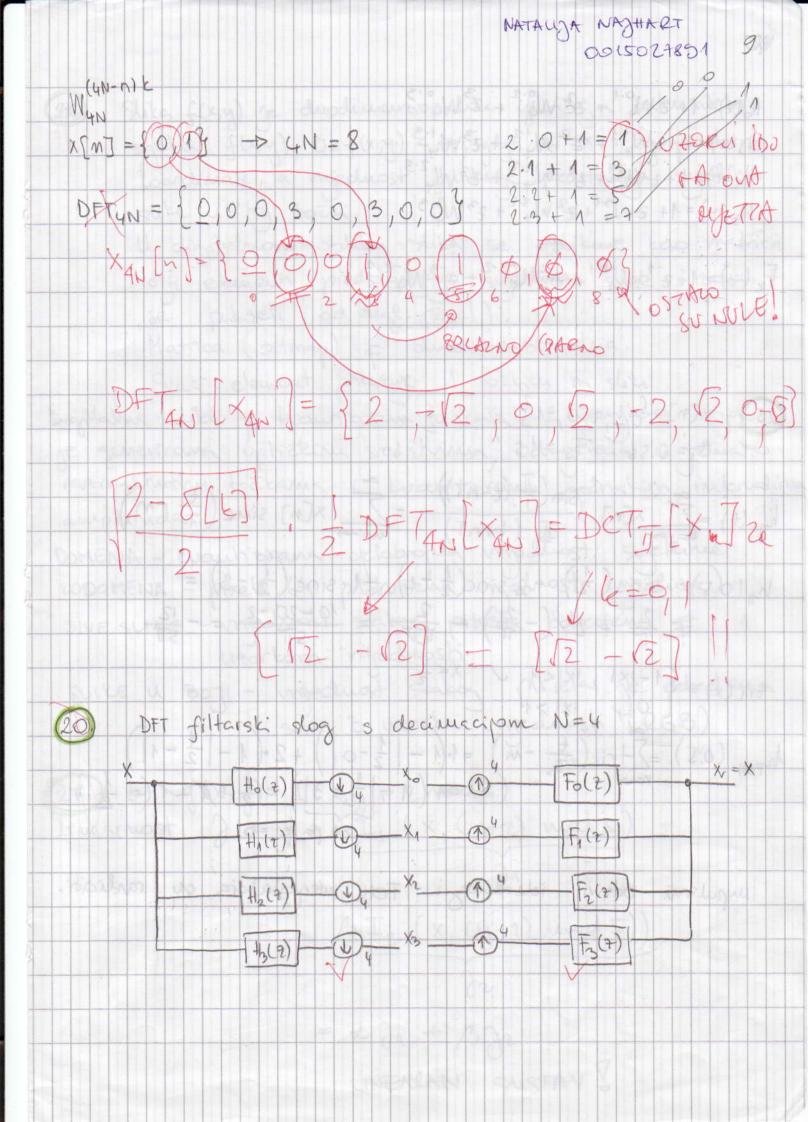
```
9) X_1[n] = \{5, 4, 3, 2, 1\} X_2[n] = \{1, 2, 3, 4, 5\}
X, [n] * X2[n] => KONDUUJA:
N=0 X COJ = 5.1=5
n=1 x [1] = 4.1 + 5.2 = 14
n=2, x[2] = 3.1+4.2+5.3 = 26
N=3, X[3] = 2, 1+3.2+4.3+5.4 = 40 = 3.2+4.
M=4, X[4]=1-1+2-2+3.3+44+5.5=55
M=5, X(5)=12+2.3+34+4.5=40
 M=6, X[6]=1.3+8+15=20
       x[7] = 1.4 + 2.5 = 14
 W + 8 / K[8] = 1.2 = 2
                                  5+2+6+12+20-
      12
            1
               2
                 3
                                  4+10+3+8+15
          4
                                                  40
                                  3+8+15+4+10
                                  2+6+12+20+5
                                                  45
   93
                                 11+4+9+16+25
                                                  55
   44
Linearnon consolucione dobiti que 9 danosa. Also i cirtula-
mon bonolución Edimo doliti 9
                                  damova anda oba signala
moramo prosiriti. Bitro je da prvom dodamo N-1 mula
 onda jos radopunimo nu ama ako je pohebuo do N =9.
 X, [m]= ? 5, 4, 3, 2, 1, 0, 0, 0, 0 } x_[n]= {1, 2, 3, 4, 5, 0, 0, 0}
                      2347
           0
             00
                                     5+0
                                                   5
                       12
             000
           5
                                      4+10
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                                      1+4+9+16+25
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                                      3+8+15
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         00012
                     34
   47
                                     4+10
                                                    14
                       3 45
   40
                     2
   49]
```











Ho(2)=1+ ZW4+ ZZW4+ ZZW40.3 (A)=1+2W4"+ Z2W4"+ Z3W1 H2(2)=1+2W4+22W42+ 23W42.3 H3(2) = 1+ ZW4+ ZW42+ 23 W3.3

TO MERCAL ACUATION

Fx(2)=1+21W4+22W4-2+23W4-6.3

DATE TO THE WAR AND ASSESSED.

25) x[n]={1,2,0,-13 ty=0.55 Ts=15

 $h_{11}(t) = \sum_{N=-\infty}^{\infty} x[n] \frac{sim(T(t-nT))}{T(t+nT)} = \sum_{N=-\infty}^{\infty} x[n] sinc(T-n)$

 $h_{11}(0.5) = sinc(\frac{1}{2}) + 2 sinc(\frac{1}{2} - 1) - 1 \cdot sinc(\frac{1}{2} - 3) =$ $= \frac{2}{11} + 2 \cdot (-\frac{2}{11}) - \frac{2}{511} = \frac{10 - 20 - 2}{511} = -\frac{12}{511}$ $+ ri(x) = \begin{cases} 1 - |x| & |x| < 1 \end{cases}$ $= \begin{cases} 1 - |x| & |x| < 1 \end{cases}$ $= \begin{cases} 1 - |x| & |x| < 1 \end{cases}$

 $h_{\text{FOH}}(0.5) = \sum_{N=2}^{2} + ri \left(\frac{t}{\tau_s} - M \right) = 1 \cdot \left(1 - \left| \frac{1}{2} - 0 \right| \right) + 2 \cdot \left(1 - \left| \frac{1}{2} - 1 \right| \right)$ -1 (1-12-31) = 12+x-1= 1 >1 pa e =0

Impulario odaivi idealuso i FOH interpolatora en ranliciói.

10

Slika f(x,y) je dvodimenoonalna funka a internateta 206 smelle f(x,y), 0xf(x,y) < 00; odge su x i y prostorne Coordinate, a unedwost punkaje predstantja svjetlinu glike u hoj točki, U diaitalnom obliku slika se obliture kao matrica orii element predistantique suptlime dite i vom se pikseli (od eugl. pixel) Matrica (sitmap) & disdimentionalna. Svale element micerary 1 tockice on slice Digitalma slika e sucuri avana funcaja 2 vanjabe Loja re generirana ophitime sied shinua odnijerena u reduates raxmaknutinu tockama i kvantizvana gednakim mlendima amplituda: DOMENA - transforana delabrojua modurest suchine WODDMENIA - prixeli (t. pridrizena injednost snotline) SIVE SLIKE - medmost svalog piseta određena e nearborn madroon SUKE U BOJI - meduast svakag piksela je određena sa 3 works medush (RGB) (24) b) y(x,y)= I(x,y+2 mods) linearmost: D(xy) = dIn (x, (y+2) mod 5) BI2 (x, (y+2) mod 5)) = 2 21 + 1322 LINEARAN SUSTAV ?

2 (x,y) =	23456	18 T +25	ALL CO	MOSINAMA	d by	(40)	stile	
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28) 2(x,y))= 1	10,20	2094 10	4,4)+0.58=	206 a (x	4)+0.	11402	b(x 4))
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					1 1/4			
	0.206	0.234	0.162	0.189		3 8/		
	0.160	0.188	0.215	0.243	12 0		9 + 19	
				0.196	Turbjulo!	9 25		
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10 MASTER 18 15	0.067	0.094	0.122	0.149	35/199	100	16-1314	10 3
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