1.)
$$S(a_16) \Rightarrow G^2 = 6 \Rightarrow 6 = \sqrt{6}$$
 $P = 16.2$
 $A = 0.05$
 $A = 0.$

5.) n=50 $t-test$
1 -12,6
$\frac{S = 0.53}{1000}, \alpha = 0.05$ $T = \frac{\overline{X} - \alpha_0}{5/\sqrt{n}} = \frac{0.6}{0.0749} = 8,01068$
Ho 0= 12
$H_1 = a \neq a \circ$
Hiatao t>tmi,1-2, opercule se HIPOTEZA
\$ 01>2,02 V
6.) un 12.5 12.5
Jam 0 3 3-10 10-15 15-20 +20
6.) $\mu_{m} = 0.5 \times 10^{-15} \times 10.5 \times 10^{-15} \times 10^{-1$
χ^2 , $\alpha = 0.2$, normalna?
$\frac{2j}{x} = \frac{a_j - x}{x}$
X - 2 21/1: 1 1/3: 1/5 + 1/5: 1/5 + +/0.22 = 1
$M = \frac{1}{h} \sum_{i=1}^{h} \eta_{i} X_{i}^{2} = \frac{1}{210} \left(15.25^{2} + + 10.225^{2} \right) = 161.25$ $M = \frac{1}{h} \sum_{i=1}^{h} \eta_{i} X_{i}^{2} = \frac{1}{210} \left(15.25^{2} + + 10.225^{2} \right) = 161.25$
$\delta^2 = M - \chi^2 = 161,25 - 139,24 = 22 =) \delta = 4,69$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
-0 5 25 15 -10 -166 -1 -0,255 0,0725 0,53x7 7 7 -10-118-0.38
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
10 15 12,5 100 -038 0,68 -0,298 0,503 0,4005 0,001
20 25+125 10 174 0 0,918 1 0,041 0,0067 8: -1(-0800,0)-1000
1/6=1,0441
2 parametro 5 raztedo [12-4017] [(5-10) = 1 (-0,298+0,855)=0,248
S.S=m-r-1=5-2-1=2 Pao-10=94005
$\chi^{2}_{m-r-1,1-k} = \chi^{2}_{2,0.8} = 3,219$ $\begin{cases} \rho_{01r-10} = 0,2075 \\ \rho_{01} = 0,041 \end{cases}$
2 100 1
Kriterij: X.g > Xm-r-1,1-x
1,0277>3,219 ×→ 1,0277 > 3,219
HIPOTEZA SE PRIHVACA, TJ. NE ODBACUJE/

7.) 0=200 165, 170, 182, 185, 193, 200, 203, 210 X=0,05 52-1 51 (x-x)=253,43 Homazan $\bar{X} = 43 X_{i} = 188.5$ $T = \frac{\overline{V} - a_0}{S/\sqrt{n}} = \frac{188.5 - 200}{\sqrt{213.50/18}} = -2.0432$ tq,1-x=to.s=-1,895 Junetrilli d -2,0432 < -1,895 V OPBACUSEMO. 8.) 3 0 1 2 3 4 5 6 7 8 m; 12 62 129 172 150 80 28 5 2 -> n=690 B(8,0:4)~B(n,p) χ^2 test, binomna ~ $\beta(8,0.4)$; $\kappa = 0.9$ NE=8 Pi=0.4 X=12 Xi=3,21 P= (ne) pi (1-pe) n-j nijedan purameta nismo računali l Pj = (8) 0,4 (0,6) = j | nj | pj | (nj-npj)2 0 12 0.0168 0.14857 S. S. = m - r - 1 = \$ -0 - 1 = 7 0.089 Xm-r-1,1-d=X7,0,1=2,833 0,205 0.2487 X2 X m-r-1, 1-d 1,48113>2,833 X PRIHVAL & SE HIPOTERAL $\beta_{i} = \frac{\lambda^{0}}{\lambda^{i}} e^{-\lambda}$, $\lambda = \bar{\chi} = \frac{1}{n^{2}} \sum_{i=1}^{n} \frac{1}{205} = 0,512$ Pj = 0,518 e-0,51 0.686 S.S=m-r-1=4-1-1=9 0,3069 0.0772 X2 > Xm-1-9,1-0 6,4632 > X2,0.95 => 6,4632 > 5,991 OJBALWE SE HIPOTEZA! X=6.4632

11.) Ho .. a = 200 X=0,05 H, a 5200 165, 170, 182, 185, 193, 200, 203, 210 3n=8 T= X-a0=-2,04 X = 188,5 5°= 263,43 => 5=15,919 briterij £ <- tn-1,1-d tn-1,1-a= + 7,1-0,05 = 1,895 -2,04<-1,895 / ODBACUJEMO HO, PRIHVACAMO Ha! 12.) $\frac{x_1}{m_1} = 0$ 1 2 3 4 5 $\frac{5}{24} = n = 1000$ $\Rightarrow x = \frac{1}{n} = \frac{5}{n} x_1 = \frac{1}{1000} = \frac{1}{1000$ Po=0,7 e-97 = 0,4961 S.S=m-r-1=5-1-1=3, X3,0.95=4,815 Uniteriji X2 > Xm-1-1,1-4 PCIAVACA SE MIPOTERA! 9,75<7,815 13.) Xi 0 1 2 3 4 5 6 7 n: 21 62 50 40 22 0 5 0 7 n=200, x=0,05, POISSON? X=1-(1.62+1.65)=2 5.5=m-1-1 A= x=2 =6-1-1=4 1.141 67 0,2707 P=1/e-1 0.316 X4,0.35 = 9.488 40 0,180hr 22 0,090n botton: Xg>Xm-raged PRIHVACA Sto HIPOTERAL 6.82< 9.488

14.) X: N; Po (no-npi)2 0 6 0,1353 0,1524	$\overline{X} = \frac{1}{52} \cdot (10 + + 5 - 6) = 2$
1 10 0,2707 1,1805	17=2
3 10 0,1804 0,0405	$p = \frac{\lambda^{0}}{h!}e^{-\lambda}$
4 6 0,0322 40,0666	•
$\alpha = 0.05 \Rightarrow p = 0.95$ $3\chi_g = 3$	
POISSON Xg=7. X4,0,9r=	7,815 3,9327 < 7,815
5,5=m-r-1 =5-1-1	PRIHIMEANO HIPOTETU!
=3	
15.) X: n; P3 (n;-npi)	$\overline{X} = \frac{1}{205} (52.1 + + 1.4) = 0.5073$
0 130 9,602 9,3515 1 52 9,305 1,791	7=X=0,5073, X=9,05
2 18 9077 0131	
4 10,000 1,200	S.S=m-r-1=4-1-1=2
1205 1 1 3,637	X2,0,95 = 5,991
h ni	Certi X2 > X2 -1-1/1-0
	3,639 < 5,991 => PRIHIVACANO HIPOTEZY
16.) ZADATAK ISTI KAO 12.)	
18.) X 10 N; PH (n; -no;)2 / no; 0 120 0,5412 0,29042	$\bar{\chi} = \frac{1}{200} \cdot (564 + 182 + + 12) = 0,56$ $\lambda = \bar{\chi} = 0,56 \lambda = 0.07$
0 120 0,5912 0,29042	$n = \bar{\chi} = 0.56$, $A = 0.07$
7 56 0,3158 0,39064 2 18 0,08956 0,000432	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$P_{i} = \frac{\lambda J}{k!} e^{-\lambda J}$
4 1000 0,01905 Xg = 2,54	5.5=m-1-1=4-1-1=2
3 22 2,3125	X2,0,5F=5,991
lenteria:	2 2
	9 /m-r-1,1-2 (RIHVOCAMO HIPOTEZN)

21.) $\frac{\chi_{1}}{0} \frac{\eta_{1}}{0} \frac{\eta_{1}}{0} \frac{\eta_{1}}{0} \frac{\eta_{1}}{0} = 0.05$ 1 103 3/16 0,0127 1 102 3/16 0,0857 3 32 1/16 0,257 $\chi_{2}^{2} = 0.507$ $\chi_{3}^{2} = 0.507$	
23.) $\frac{x_{i}}{1} \frac{n_{i}}{34} \frac{n_{i}}{1/6} \frac{(n_{i}-n_{f})^{4}}{0.533}$ $\frac{2}{2} \frac{28}{8} \frac{1/6}{4} \frac{0.133}{0.533}$ $\frac{3}{4} \frac{26}{32} \frac{1/6}{4} \frac{0.133}{0.33}$ $\frac{4}{32} \frac{32}{4/6} \frac{1/6}{0.133}$ $\frac{5.5}{5} = m-r-1 = 6-0-1 = 5$ $\frac{5}{27} \frac{27}{1/6} \frac{1/6}{0.3}$ $\frac{7}{10} \frac{3}{1/6} \frac{7}{10} \frac{3}{1/6}$ $\frac{7}{10} \frac{3}{1/6} \frac{7}{10} \frac{3}{1/6} \frac{7}{10} \frac{3}{1/6} \frac{7}{10} \frac{3}{1/6} \frac{7}{10} \frac{1}{10} \frac{1}{10}$	
24.) $\frac{\chi_{i}}{0} \frac{h_{i}}{1} \frac{p_{1}}{0} \frac{q_{i}^{2} - np_{i}^{2}}{0}$ $\frac{\lambda_{i}}{0} \frac{h_{i}}{0} \frac{p_{1}}{0} \frac{q_{i}^{2} - np_{i}^{2}}{0}$ $\frac{\lambda_{i}}{0} \frac{h_{i}}{0} \frac{p_{1}}{0} \frac{q_{i}^{2} - np_{i}^{2}}{0}$ $\frac{\lambda_{i}}{0} \frac{h_{i}}{0} \frac{p_{1}}{0} \frac{q_{1}^{2} - np_{i}^{2}}{0}$ $\frac{\lambda_{i}}{0} \frac{h_{i}}{0} \frac{p_{1}}{0} \frac{q_{1}^{2} - np_{i}^{2}}{0}$ $\frac{\lambda_{i}}{0} \frac{h_{i}}{0} \frac{p_{1}}{0} \frac{q_{1}^{2} - q_{1}^{2}}{0} \frac{q_{1}^{2}}{0} \frac{q_{1}^{2} - q_{1}^{2}}{0} \frac{q_{1}^{2} - q_{1}^{2}}{0} $	
$\frac{\text{k.vitery}: X_{q}^{2} > X_{m-r-1, 1-d}}{2,799} = \frac{6-1-1}{24}$ $\frac{2}{4}, 0.95^{2} = \frac{9,488}{1,0.95^{2}}$ $\frac{1}{4}, 0.95^{2} = \frac{9,488}{1,0.95^{2}}$	

25.) $n = 180$, $d = 0.1$ $\frac{x_1 n_i }{134} \frac{P_i n_{P_i}}{16}$ $\frac{134}{34} \frac{116}{16} \frac{0.5333}{0.1333}$ $\frac{136}{32} \frac{116}{116} \frac{0.5333}{0.1333}$ $\frac{132}{527} \frac{116}{116} \frac{0.3}{0.5}$ $\frac{133}{633} \frac{116}{116} \frac{0.5}{0.5}$	$5, 5, = m-r-1 = 6-0-1=5$ $X_{5,0.9}^{2} = 9,236$ $Limiter_{1} = X_{9}^{2} > X_{m-r-1,1-4}^{2}$ $1,933 < 9,236 \qquad PRIHVACAMO HIPOTERU!$
26.) $n=800$ $d=0,1$ $J \in DNOLIKA=?$ $X_1' \mid n_1' \mid P_3' \mid n_{P_3}$ $0 \mid P_4' \mid 1/10 \mid 0.45$ $1 \mid 92 \mid 1/10 \mid 1.8$ $2 \mid 83 \mid 1/10 \mid 0.0125$ $3 \mid P_3' \mid 1/10 \mid 0.0125$ $4 \mid 80 \mid 1/10 \mid 0.0125$ $4 \mid 80 \mid 1/10 \mid 0.0125$ $5 \mid P_4' \mid 1/10 \mid 0.0125$ $7 \mid P_5' \mid 1/10 \mid 0.0125$ $7 \mid P_5' \mid 1/10 \mid 0.0125$ $8 \mid P_6' \mid 1/10 \mid 0.3125$ $8 \mid P_6' \mid 1/10 \mid 0.3125$ $9 \mid 91 \mid 1/10 \mid 1.5125$ $2=800 \mid 2=1 \mid X_q^2=5,125$	S.S. = m-r-1=10-0-1=9 $\chi_{5,0.5}^2 = 14,684$ $k_{riterij}: \chi_g^2 > \chi_{m-r-1,1-a}^2$ $5,125 < 14,684$ HIPOTERA SE PRIHVAĆA!
a = p = 0 - 9 $a = p = 0 - 9$	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

SLUŽBENA RJEŠENJA:

§ 12. Testiranje hipoteza

- 6. $\chi^2=0.73$, $\chi^2_{\alpha}=3.22$; ne može se odbaciti
- 7. t = -2.04, $t_{\alpha} = 1.89$; ne prihvaća se
- 8. $\chi^2 = 1.44$, $\chi^2_{\alpha} = 2.83$, prihvaća se
- 9. $\chi^2=6.36$, $\chi^2_{\alpha}=5.99$, ne prihvaća se
- 10. $\chi^2 = 0.2553$, Hipoteza se prihvaća
- 11. t = -1.76, $t_{\alpha/2} = 2.09$, prihvaća se
- 12. $\chi^2=4.54$, $\chi^2_{lpha}=7.8$, ne može se odbaciti
- 13. $\chi^2 = 7.02$, $\chi^2_{\alpha} = 9.49$, ne može se odbaciti
- **14.** $\chi^2 = 4.14$, $\chi^2_{\alpha} = 7.82$, ne može se odbaciti
- 15. $\chi^2 = 3.64$, $\chi^2_{\alpha} = 6$, ne može se odbaciti
- 16. $\chi^2 = 4.44$, $\chi^2_{\alpha} = 7.8$, ne može se odbaciti
- 17. $\chi^2 = 2.88$, $\chi^2_{\alpha} = 9.5$, ne može se odbaciti
- **18.** $\chi^2 = 2.46$, $\chi^2_{\alpha} = 5.99$, odbacuje se
- 19. prihvaća se
- **20.** $\chi^2=11.96$, $\chi^2_{lpha}=11.07$, hipoteza se odbacuje
- **21.** $\chi^2 = 0.5079$, prihvaća se
- 22. prihvaća se
- 23. Prihvaća se
- 24. Ne prihvaća se
- 25. Hipoteza se prihvaća
- 26. Hipoteza se prihvaća

TABLICA NORMALNE RAZDIOBE:

TABLICA NORMALNE RAZDIOBE: FUNKCIJA Φ^*

	0	1	2	3	4	5	6	7	8	9
0.00	00000	00080	00160	00239	00319	00399	00479	00559	00638	00718
0.01	00798	00878	00957	01037	01117	01197	01277	01356	01436	01516
0.02	01596	01675	01755	01835	01915	01995	02074	02154	02234	02314
0.03	02393	02473	02553	02633	02712	02792	02872	02951	03031	03111
0.04	03191	03270	03350	03430	03510	03589	03669	03749	03828	03908
0.05	03988	04067	04147	04227	04306	04386	04466	04545	04625	04705
0.06	04784	04864	04944	05023	05103	05183	05262	05342	05421	05501
0.07	05581	05660	05740	05819	05899	05979	06058	06138	06217	06279
0.08	06376	06456	06535	06615	06694	06774	06853	06933	07012	07092
0.09	07171	07251	07330	07410	07489	07569	07648	07727	07807	07886
0.10	07966	08045	08124	08204	08283	08362	08442	08521	08600	08680
0.11	08759	08838	08918	08977	09076	09155	09235	09314	09393	09472
0.12	09552	09631	09710	09789	09868	09948	10027	10106	10185	10264
0.13	10343	10422	10502	10581	10660	10739	10818	10897	10976	11055
0.14	11134	11213	11292	11371	11450	11529	11608	11687	11766	11845
0.15	11924	12002	12081	12160	12239	12318	12397	12476	12554	12633
0.16	12712	12791	12869	12948	13027	13106	13184	13263	13342	13420
0.17	13499	13578	13656	13735	13813	13892	13971	14049	14128	14206
0.18	14285	14363	14442	14520	14599	14677	14756	14834	14912	14991
0.19	15069	15147	15226	15304	15382	15461	15539	15617	15695	15774
0.20	15852	15930	16008	16086	16165	16243	16321	16399	16477	16555
0.21	16633	16711	16789	16867	16945	17023	17101	17179	17257	17335
0.22	17413	17491	17569	17646	17724	17802	17880	17958	18035	18113
0.23	18191	18269	18346	18424	18502	18579	18657	18734	18812	18889
0.24	18967	19044	19122	19199	19277	19354	19432	19509	19587	19664
0.25	19741	19819	19896	19973	20050	20128	20205	20282	20359	20436
0.26	20514	20591	20668	20745	20822	20899	20976	21053	21130	21207
0.27	21284	21361	21438	21515	21592	21668	21745	21822	21899	21976
0.28	22052	22129	22206	22282	22359	22436	22512	22589	22665	22742
0.29	22818	22895	22971	23048	23124	23201	23277	23353	23430	23506
0.30	23582	23659	23735	23811	23887	23963	24040	24116	24192	24268
0.31	24344	24420	24496	24572	24648	24724	24800	24876	24952	25027
0.32	25103	25179	25255	25330	25406	25482	25558	25633	25709	25784
0.33	25860	25936	26011	26087	26162	26237	26313	26388	26464	26539
0.34	26614	26690	26765	26840	26915	26991	27066	27141	27216	27291
0.35	27366	27441	27516	27591	27666	27741	27816	27891	27966	28040
0.36	28115	28190	28265	28340	28414	28489	28563	28638	28713	28787
0.37	28862	28936	29011	29085	29160	29234	29308	29383	29457	29531
0.38	29605	29680	29754	29828	29902	29976	30050	30124	30198	30272
0.39	30346	30420	30494	30568	30642	30716	30789	30863	30937	31011
0.40	31084	31158	31232	31305	31379	31452	31526	31599	31673	31746
0.41	31819	31893	31966	32039	32113	32186	32259	32332	32405	32478
0.42	32551	32624	32697	32770	32843	32916	32989	33062	33135	33208
0.43	33280	33353	33426	33499	33571	33644	33716	33789	33861	33934
0.44	34006	34079	34151	34223	34296	34368	34440	34512	34585	34657
0.45	34729	34801	34873	34945	35017	35089	35161	35233	35305	35377
0.46	35448	35520	35592	35664	35735	35807	35878	35950	36022	36093
0.47	36164	36236	36307	36379	36450	36521	36593	36664	36735	36806
0.48	36877	36948	37019	37090	37161	37232	37303	37374	37445	37516
0.49	37587	37657	37728	37799	37869	37940	38011	38081	38152	38222
0.50	38292	38363	38433	38504	38574	38644	38714	38785	38855	38925
0.51	38995	39065	39135	39205	39275	39345	39415	39484	39554	39624
0.52	39694	39763	39833	39903	39972	40042	40111	40181	40250	40319
0.53	40389	40458	40527	40587	40666	40735	40804	40873	40942	41011
0.54	41080	41149	41218	41287	41356	41425	41493	41562	41631	41699
0.55	41768	41837	41905	41974	42042	42111	42179	42247	42316	42384
0.56	42452	42520	42588	42657	42725	42793	42861	42929	42997	43064
0.57	43132	43200	43268	43336	43403	43471	43538	43606	43674	43741
0.58	43809	43876	43943	44011	44078	44145	44212	44280	44347	44414
0.59	44481	44548	44615	44682	44749	44816	44882	44949	45016	45083
0.60	45149	45216	45283	45349	45416	45482	45549	45615	45681	45748
0.61	45814	45880	45946	46012	46078	46145	46211	46277	46342	46408
0.62	46474	46540	46606	46672	46737	46803	46869	46934	47000	47065
0.63	47131	47196	47261	47327	47392	47457	47522	47588	47653	47718
0.64	47783	47848	47913	47978	48042	48107	48172	48237	48302	48366

	0	1	2	3	4	5	6	7	8	9
0.65	48431	48495	48560	48624	48689	48753	48818	48882	48946	49010
0.66	49075	49139	49203	49267	49331	49395	49459	49523	49587	49650
0.67	49714	49778	49842	49905	49969	50032	50096	50159	50223	50286
0.68	50350	50413	50476	50539	50602	50666	50729	50792	50855	50918
0.69	50981	51043	51106	51169	51232	51294	51357	51420	51482	51545
0.70	51607	51670	51732	51794	51857	51919	51981	52043	52105	52168
0.71	52230	52292	52354	52415	52477	52539	52601	52663	52724	52786
0.72	52848	52909	52971	53032	53093	53155	53216	53277	53339	53400
0.73	53461	53522	53583	53644	53705	53766	53827	53888	53947	54009
0.74	54070	54131	54191	54252	54312	54373	54433	54494	54554	54614
0.75	54675	54735	54795	54855	54915	54975	55035	55095	55155	55215
0.76	55275	55334	55394	55454	55513	55573	55632	55692	55751	55811
0.77	55870	55929	55989	56048	56107	56166	56225	56284	56343	56402
0.78	56461	56520	56579	56637	56696	56755	56813	56872	56930	56989
0.79	57047	57106	57164	57222	57280	57339	57397	57455	57513	57571
0.80	57629	57687	57745	57803	57860	57918	57976	58033	58091	58148
0.81	58206	58263	58321	58378	58436	58493	58550	58607	58664	58721
0.82	58778	58835	58892	58949	59006	59063	59120	59176	59233	59290
0.83	59346	59403	59459	59516	59572	59628	59685	59741	59797	59853
0.84	59909	59965	60021	60077	60133	60189	60245	60300	60356	60412
0.85	60467	60523	60579	60634	60690	60745	60800	60856	60911	60966
0.86	61021	61076	61131	61186	61241	61296	61351	61406	61461	61515
0.87	61570	61625	61679	61734	61788	61843	61893	61951	62006	62060
0.88	62114	62168	62222	62276	62330	62384	62438	62492	62546	62600
0.89	62653	62707	62761	62814	62868	62921	62975	63028	63081	63135
0.90	63188	63241	63294	63347	63400	63453	63506	63559	63612	63665
0.91	63718	63770	63823	63876	63928	63981	64033	64086	64138	64190
0.92	64243	64295	64347	64399	64451	64503	64555	64607	64659	64711
0.93	64763	64815	64866	64918	64970	65021	65073	65124	65176	65227
0.94	65278	65330	65381	65432	65483	65534	65585	65636	65687	65738
0.95	65789	65840	65890	65941	65992	66042	66093	66143	66194	66244
0.96	66294	66345	66395	66445	66495	66546	66596	66646	66696	66745
0.97	66795	66845	66895	66945	66994	67044	67094	67143	67193	67242
0.98	67291	67341	67390	67439	67488	67538	67587	67636	67685	67734
0.99	67783	67831	67880	67929	67978	68026	68075	68124	68172	68221
1.0	68269	68750	69227	69699	70166	70628	71086	71538	71986	72429
1.1	72867	73300	73729	74152	74571	74986	75395	75800	76200	76595
1.2	76986	77372	77754	78130	78502	78870	79233	79592	79945	80295
1.3	80640	80980	81316	81648	81975	82298	82617	82931	83241	83547
1.4	83849	84146	84439	84728	85013	85294	85571	85844	86113	86370
1.5	86639	86896	87149	87398	87644	87886	88124	88358	88589	88817
1.6	89040	89260	89477	89690	89899	90106	90309	90508	90704	90897
1.7	91087	91273	91457	91637	91814	91988	92159	92327	92492	92655
1.8	92814	92970	93124	93275	93423	93596	93711	93852	93989	94124
1.9	94257	94387	94514	94639	94762	94882	95000	95116	95230	95341
2.0 2.1 2.3 2.4 2.5 2.6 2.8 2.9	95450 96427 97217 97855 98360 98758 D0678 D3066 D4890 D6268	95557 96514 97289 97911 98405 98793 D0946 D3272 D5046 D6386	95662 96599 97358 97966 98448 98826 D1207 D3472 D5198 D6500	95764 96683 97425 98019 98490 98859 D1462 D3667 D5345 D6610	95865 96765 97491 98072 98531 98891 D1709 D3856 D5489 D6718	95964 96844 97555 98123 98571 98923 D1951 D4040 D5628 D6822	96060 96923 97618 98173 98611 98953 D2186 D4220 D5764 D6924	96155 96999 97679 98221 98649 98983 D2415 D4394 D5895 D7022	96247 97074 97739 98269 98686 99012 D2638 D4564 D6023 D7118	96338 97148 97798 98315 98723 99040 D2855 D4729 D6148 D7210
3.0 3.1 3.2 3.3 3.5 3.6 3.7 3.8 9 4.0	D7300 D8065 D8626 T0332 T3261 T5347 T6818 T7844 T8553 C0381 C3666	D7388 D8129 D8673 T0670 T3504 T5519 T6938 T7927 T8610 C0770 C3928	D7472 D8191 D8718 T0998 T3738 T5685 T7054 T8008 T8665 C1145 C4180	D7554 D8252 D8762 T1315 T3964 T5844 T7166 T8085 T8719 C1505 C4422	D7634 D8311 D8805 T1622 T4183 T5999 T7274 T8160 T8770 C1852 C4655	D7712 D8367 D8846 T1919 T4394 T6148 T7378 T8232 T8819 Ç2185 C4878	D7787 D8422 D8886 T2206 T4598 T6291 T7478 T8301 T8866 Ç2505 C5093	D7859 D8476 D8925 T2483 T4795 T6430 T7574 T8368 T8912 C2813 C5299	D7930 D8527 D8962 T2751 T4986 T6564 T7668 T8432 T8955 Ç3108 C5496	D7998 D8577 D8998 T3011 T5170 T6693 T7757 T8494 T8998 Ç3393 C5686

KVANTILI HI-KVADRAT RAZDIOBE:

Tablica 2. Kvantili hi-kvadrat razdiobe χ^2_p

1 0.0Č157 0.Č393 0.T157 0.T628 0.T982 0.D393 0.0158 0.0642 0.102 0.12 2 0.T200 0.0100 0.0201 0.0404 0.0506 0.103 0.211 0.446 0.575 0.77 3 0.0243 0.0717 0.115 0.185 1.216 0.352 0.584 1.005 1.213 1.42 4 0.0908 0.207 0.297 0.429 0.484 0.711 1.064 1.649 1.923 2.15 5 0.210 0.412 0.554 0.752 0.831 1.145 1.610 2.343 2.675 3.00 6 0.381 0.676 0.872 1.134 1.237 1.635 2.204 3.070 3.455 3.82 7 0.598 0.989 1.239 1.564 1.690 2.167 2.833 3.822 4.255 4.67 8 0.857 1.344 1.646 2.032 2.180 2.7											
2 0.T200 0.0100 0.0201 0.0404 0.0506 0.103 0.211 0.446 0.575 0.77 3 0.0243 0.0717 0.115 0.185 1.216 0.352 0.584 1.005 1.213 1.42 4 0.0908 0.207 0.297 0.429 0.484 0.711 1.064 1.649 1.923 2.18 5 0.210 0.412 0.554 0.752 0.831 1.145 1.610 2.343 2.675 3.00 6 0.381 0.676 0.872 1.134 1.237 1.635 2.204 3.070 3.455 3.82 7 0.598 0.989 1.239 1.564 1.690 2.167 2.833 3.822 4.255 4.67 8 0.857 1.344 1.646 2.032 2.180 2.733 3.490 4.594 5.071 5.52 9 1.152 1.735 2.088 2.532 2.700 3.325	р	0.001	0.005	0.01	0.02	0.025	0.05	0.10	0.20	0.25	0.30
3 0.0243 0.0717 0.115 0.185 1.216 0.352 0.584 1.005 1.213 1.44 4 0.0908 0.207 0.297 0.429 0.484 0.711 1.064 1.649 1.923 2.18 5 0.210 0.412 0.554 0.752 0.831 1.145 1.610 2.343 2.675 3.00 6 0.381 0.676 0.872 1.134 1.237 1.635 2.204 3.070 3.455 3.82 7 0.598 0.989 1.239 1.564 1.690 2.167 2.833 3.822 4.255 4.67 8 0.857 1.344 1.646 2.032 2.180 2.733 3.490 4.594 5.071 5.52 9 1.152 1.735 2.088 2.532 2.700 3.325 4.168 5.380 5.899 6.38 10 1.479 2.156 2.558 3.059 3.247 3.940	1	0.0Č157	0.Č393	0.T157	0.T628	0.T982	0.D393	0.0158	0.0642	0.102	0.148
4 0.0908 0.207 0.297 0.429 0.484 0.711 1.064 1.649 1.923 2.16 5 0.210 0.412 0.554 0.752 0.831 1.145 1.610 2.343 2.675 3.00 6 0.381 0.676 0.872 1.134 1.237 1.635 2.204 3.070 3.455 3.82 7 0.598 0.989 1.239 1.564 1.690 2.167 2.833 3.822 4.255 4.66 8 0.357 1.344 1.646 2.032 2.180 2.733 3.490 4.594 5.071 5.52 9 1.152 1.735 2.088 2.532 2.700 3.325 4.168 5.380 5.899 6.38 10 1.479 2.156 2.558 3.059 3.247 3.940 4.865 6.179 6.737 7.26 11 1.834 2.603 3.051 3.675 4.404 5.226	2	0.T200	0.0100	0.0201	0.0404	0.0506	0.103	0.211	0.446	0.575	0.713
5 0.210 0.412 0.554 0.752 0.831 1.145 1.610 2.343 2.675 3.00 6 0.381 0.676 0.872 1.134 1.237 1.635 2.204 3.070 3.455 3.82 7 0.598 0.989 1.239 1.564 1.690 2.167 2.833 3.822 4.255 4.67 8 0.857 1.344 1.646 2.032 2.180 2.733 3.490 4.594 5.071 5.52 9 1.152 1.735 2.088 2.532 2.700 3.325 4.168 5.380 5.899 6.38 10 1.479 2.156 2.558 3.053 3.609 3.816 4.575 5.578 6.989 7.584 8.14 12 2.214 3.074 3.571 4.178 4.404 5.226 6.304 7.807 8.438 9.03 13 2.617 3.565 4.107 4.765 5.009	3	0.0243	0.0717	0.115	0.185	1.216	0.352	0.584	1.005	1.213	1.424
6 0.381 0.676 0.872 1.134 1.237 1.635 2.204 3.070 3.455 3.88 7 0.598 0.989 1.239 1.564 1.690 2.167 2.833 3.822 4.255 4.66 8 0.857 1.344 1.646 2.032 2.180 2.733 3.490 4.594 5.071 5.52 9 1.152 1.735 2.088 2.532 2.700 3.325 4.168 5.380 5.899 6.33 10 1.479 2.156 2.558 3.059 3.247 3.940 4.865 6.179 6.737 7.26 11 1.834 2.603 3.053 3.609 3.816 4.575 5.578 6.989 7.584 8.14 12 2.214 3.074 3.571 4.178 4.404 5.226 6.304 7.807 8.438 9.03 13 2.617 3.565 4.107 4.765 5.009 5.892	4	0.0908	0.207	0.297	0.429	0.484	0.711	1.064	1.649	1.923	2.195
7 0.598 0.989 1.239 1.564 1.690 2.167 2.833 3.822 4.255 4.67 8 0.857 1.344 1.646 2.032 2.180 2.733 3.490 4.594 5.071 5.52 9 1.152 1.735 2.088 2.532 2.700 3.325 4.168 5.380 5.899 6.33 10 1.479 2.156 2.558 3.059 3.247 3.940 4.865 6.179 6.737 7.26 11 1.834 2.603 3.053 3.609 3.816 4.575 5.578 6.989 7.584 8.14 12 2.214 3.074 3.571 4.178 4.404 5.226 6.304 7.807 8.438 9.03 13 2.617 3.565 4.107 4.765 5.009 5.892 7.042 8.634 9.299 9.92 14 3.041 4.075 4.660 5.368 5.629 6.571	5	0.210	0.412	0.554	0.752	0.831	1.145	1.610	2.343	2.675	3.000
8 0.857 1.344 1.646 2.032 2.180 2.733 3.490 4.594 5.071 5.529 9 1.152 1.735 2.088 2.532 2.700 3.325 4.168 5.380 5.899 6.38 10 1.479 2.156 2.558 3.059 3.247 3.940 4.865 6.179 6.737 7.26 11 1.834 2.603 3.053 3.609 3.816 4.575 5.578 6.989 7.584 8.14 12 2.214 3.074 3.571 4.178 4.404 5.226 6.304 7.807 8.438 9.03 13 2.617 3.565 4.107 4.765 5.009 5.892 7.042 8.634 9.299 9.92 14 3.041 4.075 4.660 5.368 5.629 6.571 7.790 9.467 10.165 10.82 15 3.483 4.601 5.229 5.985 6.262 7.261	6	0.381	0.676	0.872	1.134	1.237	1.635	2.204	3.070	3.455	3.828
9 1.152 1.735 2.088 2.532 2.700 3.325 4.168 5.380 5.899 6.30 10 1.479 2.156 2.558 3.059 3.247 3.940 4.865 6.179 6.737 7.26 11 1.834 2.603 3.053 3.609 3.816 4.575 5.578 6.989 7.584 8.14 12 2.214 3.074 3.571 4.178 4.404 5.226 6.304 7.807 8.438 9.03 13 2.617 3.565 4.107 4.765 5.009 5.892 7.042 8.634 9.299 9.92 14 3.041 4.075 4.660 5.368 5.629 6.571 7.790 9.467 10.165 10.82 15 3.483 4.601 5.229 5.985 6.262 7.261 8.547 10.307 11.036 11.72 16 3.942 5.142 5.812 6.614 6.908 7.962 9.312 11.152 11.912 12.62 17 4.416 5.697 6.408 7.255 7.564 8.672 10.085 12.002 12.792 13.53 18 4.905 6.265 7.015 7.906 8.231 9.390 10.865 12.857 13.675 14.44 19 5.407 6.844 7.633 8.567 8.907 10.117 11.651 13.716 14.562 15.38 20 5.921 7.434 8.260 9.237 9.591 10.851 12.443 14.578 15.452 16.26 21 6.447 8.034 8.897 9.915 10.283 11.591 13.240 15.445 16.344 17.18 22 6.983 8.643 9.542 10.600 10.982 12.338 14.041 16.314 17.240 18.10 23 7.529 9.260 10.196 11.293 11.688 13.091 14.848 17.187 18.137 19.02 24 8.085 9.886 10.856 11.992 12.401 13.848 15.659 18.062 19.037 19.94 25 8.649 10.520 11.524 12.697 13.120 14.611 16.473 18.940 19.939 20.86 26 9.222 11.160 12.198 13.409 13.844 15.379 17.292 19.820 20.843 21.75 29 9.803 11.808 12.879 14.125 14.573 16.151 18.114 20.703 21.749 22.77 28 10.391 12.461 13.565 14.847 15.308 16.928 18.939 21.588 22.657 23.64 29 10.986 13.121 14.256 15.574 14.047 17.708 19.768 22.475 23.567 24.55	7	0.598	0.989	1.239	1.564	1.690	2.167	2.833	3.822	4.255	4.671
10 1.479 2.156 2.558 3.059 3.247 3.940 4.865 6.179 6.737 7.26 11 1.834 2.603 3.053 3.609 3.816 4.575 5.578 6.989 7.584 8.14 12 2.214 3.074 3.571 4.178 4.404 5.226 6.304 7.807 8.438 9.03 13 2.617 3.565 4.107 4.765 5.009 5.892 7.042 8.634 9.299 9.92 14 3.041 4.075 4.660 5.368 5.629 6.571 7.790 9.467 10.165 10.82 15 3.483 4.601 5.229 5.985 6.262 7.261 8.547 10.307 11.036 11.72 16 3.942 5.142 5.812 6.614 6.908 7.962 9.312 11.152 11.912 12.62 17 4.416 5.697 6.408 7.255 7.564 8.67	8	0.857	1.344	1.646	2.032	2.180	2.733	3.490	4.594	5.071	5.527
11 1.834 2.603 3.053 3.609 3.816 4.575 5.578 6.989 7.584 8.14 12 2.214 3.074 3.571 4.178 4.404 5.226 6.304 7.807 8.438 9.03 13 2.617 3.565 4.107 4.765 5.009 5.892 7.042 8.634 9.299 9.92 14 3.041 4.075 4.660 5.368 5.629 6.571 7.790 9.467 10.165 10.82 15 3.483 4.601 5.229 5.985 6.262 7.261 8.547 10.307 11.036 11.72 16 3.942 5.142 5.812 6.614 6.908 7.962 9.312 11.152 11.912 12.62 17 4.416 5.697 6.408 7.255 7.564 8.672 10.085 12.002 12.792 13.53 18 4.905 6.265 7.015 7.906 8.231 9.390 10.865 12.857 13.675 14.44 19 5.407	9	1.152	1.735	2.088	2.532	2.700	3.325	4.168	5.380	5.899	6.393
12 2.214 3.074 3.571 4.178 4.404 5.226 6.304 7.807 8.438 9.02 13 2.617 3.565 4.107 4.765 5.009 5.892 7.042 8.634 9.299 9.92 14 3.041 4.075 4.660 5.368 5.629 6.571 7.790 9.467 10.165 10.82 15 3.483 4.601 5.229 5.985 6.262 7.261 8.547 10.307 11.036 11.72 16 3.942 5.142 5.812 6.614 6.908 7.962 9.312 11.152 11.912 12.62 17 4.416 5.697 6.408 7.255 7.564 8.672 10.085 12.002 12.792 13.53 18 4.905 6.265 7.015 7.906 8.231 9.390 10.865 12.857 13.675 14.44 19 5.407 6.844 7.633 8.567 8.907	10	1.479	2.156	2.558	3.059	3.247	3.940	4.865	6.179	6.737	7.267
13 2.617 3.565 4.107 4.765 5.009 5.892 7.042 8.634 9.299 9.92 14 3.041 4.075 4.660 5.368 5.629 6.571 7.790 9.467 10.165 10.82 15 3.483 4.601 5.229 5.985 6.262 7.261 8.547 10.307 11.036 11.72 16 3.942 5.142 5.812 6.614 6.908 7.962 9.312 11.152 11.912 12.62 17 4.416 5.697 6.408 7.255 7.564 8.672 10.085 12.002 12.792 13.53 18 4.905 6.265 7.015 7.906 8.231 9.390 10.865 12.857 13.675 14.44 19 5.407 6.844 7.633 8.567 8.907 10.117 11.651 13.716 14.562 15.35 20 5.921 7.434 8.260 9.237 9.591 10.851 12.443 14.578 15.452 16.26 21 6.4	11	1.834	2.603	3.053	3.609	3.816	4.575	5.578	6.989	7.584	8.148
14 3.041 4.075 4.660 5.368 5.629 6.571 7.790 9.467 10.165 10.82 15 3.483 4.601 5.229 5.985 6.262 7.261 8.547 10.307 11.036 11.72 16 3.942 5.142 5.812 6.614 6.908 7.962 9.312 11.152 11.912 12.62 17 4.416 5.697 6.408 7.255 7.564 8.672 10.085 12.002 12.792 13.53 18 4.905 6.265 7.015 7.906 8.231 9.390 10.865 12.857 13.675 14.44 19 5.407 6.844 7.633 8.567 8.907 10.117 11.651 13.716 14.562 15.35 20 5.921 7.434 8.260 9.237 9.591 10.851 12.443 14.578 15.452 16.26 21 6.447 8.034 8.897 9.915 10.283 11.591 13.240 15.445 16.344 17.18 22 <	12	2.214	3.074	3.571	4.178	4.404	5.226	6.304	7.807	8.438	9.034
15 3.483 4.601 5.229 5.985 6.262 7.261 8.547 10.307 11.036 11.72 16 3.942 5.142 5.812 6.614 6.908 7.962 9.312 11.152 11.912 12.62 17 4.416 5.697 6.408 7.255 7.564 8.672 10.085 12.002 12.792 13.53 18 4.905 6.265 7.015 7.906 8.231 9.390 10.865 12.857 13.675 14.44 19 5.407 6.844 7.633 8.567 8.907 10.117 11.651 13.716 14.562 15.35 20 5.921 7.434 8.260 9.237 9.591 10.851 12.443 14.578 15.452 16.26 21 6.447 8.034 8.897 9.915 10.283 11.591 13.240 15.445 16.344 17.18 22 6.983 8.643 9.542 10.600 10.982 12.338 14.041 16.314 17.240 18.10 23	13	2.617	3.565	4.107	4.765	5.009	5.892	7.042	8.634	9.299	9.926
16 3.942 5.142 5.812 6.614 6.908 7.962 9.312 11.152 11.912 12.62 17 4.416 5.697 6.408 7.255 7.564 8.672 10.085 12.002 12.792 13.53 18 4.905 6.265 7.015 7.906 8.231 9.390 10.865 12.857 13.675 14.44 19 5.407 6.844 7.633 8.567 8.907 10.117 11.651 13.716 14.562 15.35 20 5.921 7.434 8.260 9.237 9.591 10.851 12.443 14.578 15.452 16.26 21 6.447 8.034 8.897 9.915 10.283 11.591 13.240 15.445 16.344 17.18 22 6.983 8.643 9.542 10.600 10.982 12.338 14.041 16.314 17.240 18.10 23 7.529 9.260 10.196 11.293 11.688 13.091 14.848 17.187 18.137 19.92 24 <th>14</th> <td>3.041</td> <td>4.075</td> <td>4.660</td> <td>5.368</td> <td>5.629</td> <td>6.571</td> <td>7.790</td> <td>9.467</td> <td>10.165</td> <td>10.821</td>	14	3.041	4.075	4.660	5.368	5.629	6.571	7.790	9.467	10.165	10.821
17 4.416 5.697 6.408 7.255 7.564 8.672 10.085 12.002 12.792 13.53 18 4.905 6.265 7.015 7.906 8.231 9.390 10.865 12.857 13.675 14.44 19 5.407 6.844 7.633 8.567 8.907 10.117 11.651 13.716 14.562 15.38 20 5.921 7.434 8.260 9.237 9.591 10.851 12.443 14.578 15.452 16.26 21 6.447 8.034 8.897 9.915 10.283 11.591 13.240 15.445 16.344 17.18 22 6.983 8.643 9.542 10.600 10.982 12.338 14.041 16.314 17.240 18.16 23 7.529 9.260 10.196 11.293 11.688 13.091 14.848 17.187 18.137 19.02 24 8.085 9.886 10.856 11.992 12.401 13.848 15.659 18.062 19.037 19.94	15	3.483	4.601	5.229	5.985	6.262	7.261	8.547	10.307	11.036	11.721
18 4.905 6.265 7.015 7.906 8.231 9.390 10.865 12.857 13.675 14.44 19 5.407 6.844 7.633 8.567 8.907 10.117 11.651 13.716 14.562 15.38 20 5.921 7.434 8.260 9.237 9.591 10.851 12.443 14.578 15.452 16.26 21 6.447 8.034 8.897 9.915 10.283 11.591 13.240 15.445 16.344 17.18 22 6.983 8.643 9.542 10.600 10.982 12.338 14.041 16.314 17.240 18.10 23 7.529 9.260 10.196 11.293 11.688 13.091 14.848 17.187 18.137 19.02 24 8.085 9.886 10.856 11.992 12.401 13.848 15.659 18.062 19.037 19.94 25 8.649 10.520 11.524 12.697 13.120 14.611 16.473 18.940 19.939 20.86	16	3.942	5.142	5.812	6.614	6.908	7.962	9.312	11.152	11.912	12.624
19 5.407 6.844 7.633 8.567 8.907 10.117 11.651 13.716 14.562 15.35 20 5.921 7.434 8.260 9.237 9.591 10.851 12.443 14.578 15.452 16.26 21 6.447 8.034 8.897 9.915 10.283 11.591 13.240 15.445 16.344 17.18 22 6.983 8.643 9.542 10.600 10.982 12.338 14.041 16.314 17.240 18.10 23 7.529 9.260 10.196 11.293 11.688 13.091 14.848 17.187 18.137 19.02 24 8.085 9.886 10.856 11.992 12.401 13.848 15.659 18.062 19.037 19.94 25 8.649 10.520 11.524 12.697 13.120 14.611 16.473 18.940 19.939 20.86 26 9.222 11.160 12.198 13.409 13.844 15.379 17.292 19.820 20.843 21.79	17	4.416	5.697	6.408	7.255	7.564	8.672	10.085	12.002	12.792	13.531
20 5.921 7.434 8.260 9.237 9.591 10.851 12.443 14.578 15.452 16.26 21 6.447 8.034 8.897 9.915 10.283 11.591 13.240 15.445 16.344 17.18 22 6.983 8.643 9.542 10.600 10.982 12.338 14.041 16.314 17.240 18.10 23 7.529 9.260 10.196 11.293 11.688 13.091 14.848 17.187 18.137 19.02 24 8.085 9.886 10.856 11.992 12.401 13.848 15.659 18.062 19.037 19.94 25 8.649 10.520 11.524 12.697 13.120 14.611 16.473 18.940 19.939 20.86 26 9.222 11.160 12.198 13.409 13.844 15.379 17.292 19.820 20.843 21.79 27 9.803 11.808 12.879 14.125 14.573 16.151 18.114 20.703 21.749 22.77 <	18	4.905	6.265	7.015	7.906	8.231	9.390	10.865	12.857	13.675	14.440
21 6.447 8.034 8.897 9.915 10.283 11.591 13.240 15.445 16.344 17.18 22 6.983 8.643 9.542 10.600 10.982 12.338 14.041 16.314 17.240 18.10 23 7.529 9.260 10.196 11.293 11.688 13.091 14.848 17.187 18.137 19.02 24 8.085 9.886 10.856 11.992 12.401 13.848 15.659 18.062 19.037 19.94 25 8.649 10.520 11.524 12.697 13.120 14.611 16.473 18.940 19.939 20.86 26 9.222 11.160 12.198 13.409 13.844 15.379 17.292 19.820 20.843 21.79 27 9.803 11.808 12.879 14.125 14.573 16.151 18.114 20.703 21.749 22.77 28 10.391 12.461 13.565 14.847 15.308 16.928 18.939 21.588 22.475 23.567 <td< td=""><th>19</th><td>5.407</td><td>6.844</td><td>7.633</td><td>8.567</td><td>8.907</td><td>10.117</td><td>11.651</td><td>13.716</td><td>14.562</td><td>15.352</td></td<>	19	5.407	6.844	7.633	8.567	8.907	10.117	11.651	13.716	14.562	15.352
22 6.983 8.643 9.542 10.600 10.982 12.338 14.041 16.314 17.240 18.10 23 7.529 9.260 10.196 11.293 11.688 13.091 14.848 17.187 18.137 19.02 24 8.085 9.886 10.856 11.992 12.401 13.848 15.659 18.062 19.037 19.94 25 8.649 10.520 11.524 12.697 13.120 14.611 16.473 18.940 19.939 20.86 26 9.222 11.160 12.198 13.409 13.844 15.379 17.292 19.820 20.843 21.79 27 9.803 11.808 12.879 14.125 14.573 16.151 18.114 20.703 21.749 22.77 28 10.391 12.461 13.565 14.847 15.308 16.928 18.939 21.588 22.657 23.64 29 10.986 13.121 14.256 15.574 14.047 17.708 19.768 22.475 23.567 24.57 </td <th>20</th> <td>5.921</td> <td>7.434</td> <td>8.260</td> <td>9.237</td> <td>9.591</td> <td>10.851</td> <td>12.443</td> <td>14.578</td> <td>15.452</td> <td>16.266</td>	20	5.921	7.434	8.260	9.237	9.591	10.851	12.443	14.578	15.452	16.266
23 7.529 9.260 10.196 11.293 11.688 13.091 14.848 17.187 18.137 19.02 24 8.085 9.886 10.856 11.992 12.401 13.848 15.659 18.062 19.037 19.94 25 8.649 10.520 11.524 12.697 13.120 14.611 16.473 18.940 19.939 20.86 26 9.222 11.160 12.198 13.409 13.844 15.379 17.292 19.820 20.843 21.79 27 9.803 11.808 12.879 14.125 14.573 16.151 18.114 20.703 21.749 22.77 28 10.391 12.461 13.565 14.847 15.308 16.928 18.939 21.588 22.657 23.64 29 10.986 13.121 14.256 15.574 14.047 17.708 19.768 22.475 23.567 24.57 30 11.588 13.787 14.953 16.306 16.791 18.493 20.599 23.364 24.478 25.50	21	6.447	8.034	8.897	9.915	10.283	11.591	13.240	15.445	16.344	17.182
24 8.085 9.886 10.856 11.992 12.401 13.848 15.659 18.062 19.037 19.94 25 8.649 10.520 11.524 12.697 13.120 14.611 16.473 18.940 19.939 20.86 26 9.222 11.160 12.198 13.409 13.844 15.379 17.292 19.820 20.843 21.79 27 9.803 11.808 12.879 14.125 14.573 16.151 18.114 20.703 21.749 22.77 28 10.391 12.461 13.565 14.847 15.308 16.928 18.939 21.588 22.657 23.64 29 10.986 13.121 14.256 15.574 14.047 17.708 19.768 22.475 23.567 24.57 30 11.588 13.787 14.953 16.306 16.791 18.493 20.599 23.364 24.478 25.50	22	6.983	8.643	9.542	10.600	10.982	12.338	14.041	16.314	17.240	18.101
25 8.649 10.520 11.524 12.697 13.120 14.611 16.473 18.940 19.939 20.86 26 9.222 11.160 12.198 13.409 13.844 15.379 17.292 19.820 20.843 21.78 27 9.803 11.808 12.879 14.125 14.573 16.151 18.114 20.703 21.749 22.77 28 10.391 12.461 13.565 14.847 15.308 16.928 18.939 21.588 22.657 23.64 29 10.986 13.121 14.256 15.574 14.047 17.708 19.768 22.475 23.567 24.57 30 11.588 13.787 14.953 16.306 16.791 18.493 20.599 23.364 24.478 25.50	23	7.529	9.260	10.196	11.293	11.688	13.091	14.848	17.187	18.137	19.021
26 9.222 11.160 12.198 13.409 13.844 15.379 17.292 19.820 20.843 21.79 27 9.803 11.808 12.879 14.125 14.573 16.151 18.114 20.703 21.749 22.77 28 10.391 12.461 13.565 14.847 15.308 16.928 18.939 21.588 22.657 23.64 29 10.986 13.121 14.256 15.574 14.047 17.708 19.768 22.475 23.567 24.57 30 11.588 13.787 14.953 16.306 16.791 18.493 20.599 23.364 24.478 25.50	24	8.085	9.886	10.856	11.992	12.401	13.848	15.659	18.062	19.037	19.943
27 9.803 11.808 12.879 14.125 14.573 16.151 18.114 20.703 21.749 22.77 28 10.391 12.461 13.565 14.847 15.308 16.928 18.939 21.588 22.657 23.64 29 10.986 13.121 14.256 15.574 14.047 17.708 19.768 22.475 23.567 24.57 30 11.588 13.787 14.953 16.306 16.791 18.493 20.599 23.364 24.478 25.50	25	8.649	10.520	11.524	12.697	13.120	14.611	16.473	18.940	19.939	20.867
28 10.391 12.461 13.565 14.847 15.308 16.928 18.939 21.588 22.657 23.64 29 10.986 13.121 14.256 15.574 14.047 17.708 19.768 22.475 23.567 24.57 30 11.588 13.787 14.953 16.306 16.791 18.493 20.599 23.364 24.478 25.50	26	9.222	11.160	12.198	13.409	13.844	15.379	17.292	19.820	20.843	21.792
29 10.986 13.121 14.256 15.574 14.047 17.708 19.768 22.475 23.567 24.57 30 11.588 13.787 14.953 16.306 16.791 18.493 20.599 23.364 24.478 25.50	27	9.803	11.808	12.879	14.125	14.573	16.151	18.114	20.703	21.749	22.719
30 11.588 13.787 14.953 16.306 16.791 18.493 20.599 23.364 24.478 25.50	28	10.391	12.461	13.565	14.847	15.308	16.928	18.939	21.588	22.657	23.647
	29	10.986	13.121	14.256	15.574	14.047	17.708	19.768	22.475	23.567	24.577
$ u_p $ -3.09023 -2.57583 -2.32635 -2.05375 -1.95996 -1.64485 -1.28155 -0.84162 -0.67449 -0.5244	30	11.588	13.787	14.953	16.306	16.791	18.493	20.599	23.364	24.478	25.508
	u_p	-3.09023	-2.57583	-2.32635	-2.05375	1.95996	-1.64485	-1.28155 -	0.84162 -	0.67449 -	0.52440

Tablica 2. Kvantili hi-kvadrat razdiobe χ^2_p

p	0.50	0.70	0.75	0.80	0.90	0.95	0.975	0.98	0.99	0.995	0.999
1	0.455	1.074	1.323	1.642	2.706	3.841	5.024	5.412	6.635	7.879	10.827
2	1.386	2.408	2.773	3.219	4.605	5.991	7.378	7.824	9.210	10.597	13.815
3	2.366	3.665	4.108	4.642	6.251	7.815	9.348	9.837	11.345	12.838	16.268
4	3.357	4.878	5.385	5.989	7.779	9.488	11.143	11.668	13.277	14.860	18.465
5	4.351	6.064	6.626	7.289	9.236	11.070	12.832	13.388	15.086	16.750	20.517
6	5.348	7.231	7.841	8.558	10.645	12.592	14.449	15.033	16.812	18.548	22.457
7	6.346	8.383	9.037	9.803	12.017	14.067	16.013	16.622	18.475	20.278	24.322
8	7.344	9.524	10.219	11.030	13.362	15.507	17.535	18.168	20.090	21.955	26.125
9	8.343	10.656	11.389	12.242	14.684	16.919	19.023	19.679	21.666	23.589	27.877
10	9.342	11.781	12.549	13.442	15.987	18.307	20.483	21.161	23.209	25.188	29.588
11	10.341	12.899	13.701	14.631	17.275	19.675	21.920	22.618	24.725	26.757	31.264
12	11.340	14.011	14.845	15.812	18.549	21.026	23.337	24.054	26.217	28.300	32.909
13	12.340	15.119	15.984	16.985	19.812	22.362	24.736	25.472	27.688	29.819	34.528
14	13.339	16.222	17.117	18.151	21.064	23.685	26.119	26.873	29.141	31.319	36.123
15	14.339	17.322	18.245	19.311	22.307	24.996	27.488	28.259	30.578	32.801	37.697
16	15.338	18.418	19.369	20.465	23.542	26.296	28.845	29.633	32.000	34.267	39.252
17	16.338	19.511	20.489	21.615	24.769	27.587	30.191	30.995	33.409	35.718	40.790
18	17.338	20.601	21.605	22.760	25.989	28.869	31.526	32.346	34.805	37.156	42.312
19	18.338	21.689	22.718	23.900	27.204	30.144	32.852	33.687	36.191	38.582	43.820
20	19.337	22.775	23.828	25.038	28.412	31.410	34.170	35.020	37.566	39.997	45.315
21	20.337	23.858	24.935	26.171	29.615	32.671	35.479	36.343	38.932	41.401	46.797
22	21.337	24.939	26.039	27.301	30.813	33.924	36.781	37.659	40.289	42.796	48.268
23	22.337	26.018	27.141	28.429	32.007	35.172	38.076	38.968	41.638	44.181	49.728
24	23.337	27.096	28.241	29.553	33.196	36.415	39.364	40.270	42.980	45.558	51.179
25	24.337	28.172	29.339	30.675	34.382	37.652	40.646	41.566	44.314	46.928	52.620
26	25.336	29.246	30.434	31.795	35.563	38.885	41.923	42.856	45.642	48.290	54.052
27	26.336	30.319	31.528	32.912	36.741	40.113	43.194	44.140	46.963	49.645	55.476
28	27.336	31.391	32.620	34.027	37.916	41.337	44.461	45.419	48.278	50.993	56.893
29	28.336	32.461	33.711	35.139	39.087	42.557	45.722	46.693	49.588	52.336	58.302
30	29.336	33.530	34.800	36.250	40.256	43.773	46.979	47.962	50.892	53.672	59.703
u_p	0.00000	0.52440	0.67449	0.84162	1.28155	1.64485	1.95996	2.05375	2.32635	2.57583	3.08023

KVANTILI STUDENTOVE RAZDIOBE:

Tablica 3. Kvantili Studentove razdiobe $t_{1-\alpha/2}$

			nivo	značajnos	sti α		
n	0.90	0.8	0.70	0.60	0.50	0.40	0.30
1	0.158	0.325	0.510	0.727	1.000	1.376	1.963
2	0.142	0.289	0.445	0.617	0.816	1.061	1.386
3	0.137	0.277	0.424	0.584	0.765	0.978	1.250
4	0.134	0.271	0.414	0.569	0.741	0.941	1.190
5	0.132	0.267	0.408	0.559	0.727	0.920	1.156
6	0.131	0.265	0.404	0.553	0.718	0.906	1.134
7	0.130	0.263	0.402	0.549	0.711	0.896	1.119
8	0.130	0.262	0.399	0.546	0.706	0.889	1.108
9	0.129	0.261	0.398	0.543	0.703	0.883	1.100
10	0.129	0.260	0.397	0.542	0.700	0.879	1.093
11	0.129	0.260	0.396	0.540	0.697	0.876	1.088
12	0.128	0.259	0.395	0.539	0.695	0.873	1.083
13	0.128	0.259	0.394	0.538	0.694	0.870	1.079
14	0.128	0.258	0.393	0.537	0.692	0.868	1.076
15	0.128	0.258	0.393	0.536	0.691	0.866	1.074
16	0.128	0.258	0.392	0.535	0.690	0.865	1.071
17	0.128	0.257	0.392	0.534	0.689	0.863	1.069
18	0.127	0.257	0.392	0.534	0.688	0.862	1.067
19	0.127	0.257	0.391	0.533	0.688	0.861	1.066
20	0.127	0.257	0.391	0.533	0.687	0.860	1.064
21	0.127	0.257	0.391	0.532	0.686	0.859	1.063
22	0.127	0.256	0.390	0.532	0.686	0.858	1.061
23	0.127	0.256	0.390	0.532	0.685	0.858	1.060
24	0.127	0.256	0.390	0.531	0.685	0.857	1.059
25	0.127	0.256	0.390	0.531	0.684	0.856	1.058
26	0.127	0.256	0.390	0.531	0.684	0.855	1.058
27	0.127	0.256	0.389	0.531	0.684	0.855	1.057
28	0.127	0.256	0.389	0.530	0.683	0.855	1.056
29	0.127	0.256	0.389	0.530	0.683	0.854	1.055
30	0.127	0.256	0.389	0.530	0.683	0.854	1.055
40	0.126	0.255	0.388	0.529	0.681	0.851	1.050
60	0.126	0.254	0.387	0.527	0.679	0.848	1.046
120	0.126	0.254	0.386	0.526	0.677	0.845	1.041
$u_{1-\alpha/2}$	0.126	0.253	0.385	0.524	0.674	0.842	1.036

Tablica 3. Kvantili Studentove razdiobe $t_{1-\alpha/2}$

			niv	o značajn	osti α		
n	0.20	0.10	0.05	0.02	0.01	0.005	0.001
1	3.078	6.314	12.706	31.821	63.657	127.32	639.619
2	1.886	2.920	4.303	6.965	9.925	14.09	31.598
3	1.638	2.353	3.182	4.541	5.841	7.45	12.941
4	1.533	2.132	2.776	3.747	4.604	5.60	8.610
5	1.476	2.015	2.571	3.365	4.032	4.77	6.859
6	1.440	1.943	2.447	3.143	3.707	4.32	5.959
7	1.415	1.895	2.365	2.998	3.499	4.03	5.405
8	1.397	1.860	2.306	2.896	3.355	3.83	5.041
9	1.383	1.833	2.262	2.821	3.250	3.69	4.781
10	1.372	1.812	2.228	2.764	3.169	3.58	4.587
11	1.363	1.796	2.201	2.718	3.106	3.50	4.437
12	1.356	1.782	2.179	2.681	3.055	3.43	4.318
13	1.350	1.771	2.160	2.650	3.012	3.37	4.221
14	1.345	1.761	2.145	2.624	2.977	3.33	4.140
15	1.341	1.753	2.131	2.602	2.947	3.29	4.073
16	1.337	1.746	2.120	2.583	2.921	3.25	4.015
17	1.333	1.740	2.110	2.567	2.898	3.22	3.965
18	1.330	1.734	2.101	2.552	2.878	3.20	3.922
19	1.328	1.729	2.093	2.539	2.861	3.17	3.883
20	1.325	1.725	2.086	2.528	2.845	3.15	3.850
21	1.323	1.721	2.080	2.518	2.831	3.14	3.819
22	1.321	1.717	2.074	2.508	2.819	3.12	3.792
23	1.319	1.714	2.069	2.500	2.807	3.10	3.767
24	1.318	1.711	2.064	2.492	2.797	3.09	3.745
25	1.316	1.708	2.060	2.485	2.787	3.08	3.725
26	1.315	1.706	2.056	2.479	2.779	3.07	3.707
27	1.314	1.703	2.052	2.473	2.771	3.06	3.690
28	1.313	1.701	2.048	2.467	2.763	3.05	3.674
29	1.311	1.699	2.045	2.462	2.756	3.04	3.659
30	1.310	1.697	2.042	2.457	2.750	3.03	3.646
40	1.303	1.684	2.021	2.423	2.704	2.97	3.551
60	1.296	1.671	2.000	2.390	2.660	2.91	3.460
120	1.289	1.658	1.980	2.358	2.617	2.86	3.373
$u_{1-\alpha/2}$	1.282	1.645	1.960	2.326	2.576	2.81	3.291

KVANTILI STANDARDNE NORMALNE RAZDIOBE:

Tablica 4. Kvantili standardne normalne razdiobe u_p

p	u_p	p	u_p	p	u_p
0.55	0.12566	0.92	1.40507	0.994	2.51214
0.60	0.25335	0.93	1.47579	0.995	2.57583
0.65	0.38532	0.94	1.55477	0.996	2.65207
0.70	0.52440	0.95	1.64485	0.997	2.74778
0.75	0.67449	0.96	1.75069	0.9975	2.80703
0.80	0.84162	0.97	1.88079	0.998	2.87816
0.82	0.91537	0.975	1.95996	0.999	3.09023
0.84	0.99446	0.98	2.05375	0.9995	3.29053
0.86	1.08032	0.99	2.32635	0.9999	3.71901
0.88	1.17499	0.991	2.36562	0.99995	3.89059
0.90	1.28155	0.992	2.40892	0.99999	4.26489
0.91	0.34076	0.993	2.45726	0.99999	4.75342

LITERATURA:

- [1] Neven Elezović: Statistika i procesi, Element 2010.godine
- [2]Grad, Testiranje hipoteza http://www.grad.hr/vera/webnastava/vjerojatnostistatistika/html/VISch15.html
- [3] Testiranje hipoteza

ftp://161.53.116.242/Predavanja vjezbe_programi_rokovi/Metode%200ptimiranja%20u% 20Proizvodnji/Testiranje%20hipotez

[4] Wikipedia, Chi-square distribution http://en.wikipedia.org/wiki/Chi-squared_distribution