

λογαριθμοί
ἑξῆς ἀριθμῶν.

ἀριθ. λογ.

4899	3.690107
4900	3.690196
4901	3.690285
4902	3.690373
4903	3.690462
4904	3.690550
4905	3.690639
4906	3.690728
4907	3.690816
4908	3.690905
4909	3.690992
4910	3.691081
4911	3.691170
4912	3.691258
4913	3.691347
4914	3.691435
4915	3.691524
4916	3.691612
4917	3.691700
4918	3.691789
4919	3.691877
4920	3.691965
4921	3.692053
4922	3.692142
4923	3.692230
4924	3.692318
4925	3.692406
4926	3.692494
4927	3.692583
4928	3.692671

4929 3.692759

4930 3.692847

4931 3.692935

4932 3.693023

4933 3.693111

4934 3.693199

4935 3.693287

4936 3.693375

4937 3.693463

4938 3.693551

4939 3.693639

4940 3.693727

ἡμ. 35

ἐκπ. 35

συνε. 35

συνη. 35

30	9.763954	9.853268	10.146732	9.910686	30
31	9.764131	9.853535	10.146465	9.910596	29
32	9.764308	9.853802	10.146198	9.910506	28
33	9.764485	9.854069	10.145931	9.910415	27
34	9.764662	9.854336	10.145664	9.910325	26
35	9.764838	9.854603	10.145397	9.910235	25
36	9.765015	9.854870	10.145130	9.910144	24
37	9.765191	9.855137	10.144863	9.910054	23
38	9.765367	9.855404	10.144596	9.909963	22
39	9.765544	9.855671	10.144329	9.909873	21
40	9.765720	9.855938	10.144062	9.909782	20
41	9.765896	9.856204	10.143796	9.909691	19
42	9.766072	9.856471	10.143529	9.909601	18
43	9.766247	9.856737	10.143263	9.909510	17
44	9.766423	9.857004	10.142996	9.909419	16
45	9.766598	9.857270	10.142730	9.909328	15
46	9.766774	9.857537	10.142463	9.909237	14
47	9.766949	9.857803	10.142197	9.909146	13
48	9.767124	9.858069	10.141931	9.909055	12
49	9.767300	9.858336	10.141664	9.908964	11
50	9.767475	9.858602	10.141398	9.908873	10
51	9.767649	9.858868	10.141132	9.908781	9
52	9.767824	9.859134	10.140866	9.908690	8
53	9.767999	9.859400	10.140600	9.908599	7
54	9.768173	9.859656	10.140334	9.908507	6
55	9.768348	9.859932	10.140068	9.908416	5
56	9.768522	9.860198	10.139802	9.908324	4
57	9.768697	9.860464	10.139536	9.908233	3
58	9.768871	9.860730	10.139270	9.908141	2
59	9.769045	9.860995	10.139005	9.908049	1
60	9.769219	9.861261	10.138739	9.907958	0

συνη. 54

συνε. 54

ἐκπ. 54

ἡμ. 54

ἀριθ. λογ. ἀριθ. λογ. ἀριθ. λογ.

4941	3.693815	4950	3.694605	4959	3.695394
4942	3.693903	4951	3.694693	4960	3.695482
4943	3.693991	4952	3.694781	4961	3.695569
4944	3.694078	4953	3.694868	4962	3.695657
4945	3.694166	4954	3.694956	4963	3.695744
4946	3.694254	4955	3.695044	4964	3.695832
4947	3.694342	4956	3.695131	4965	3.695919
4948	3.694430	4957	3.695219	4966	3.696007
4949	3.694517	4958	3.695307	4967	3.696094

ΠΑΝΕΠΙΣΤΗΜΙΟ
ΤΟΜΕΑΣ ΦΙΛΟΣΟΦΙΑΣ
ΕΡΓΑΣΤΗΡΙΟ ΕΡΕΥΝΩΝ ΝΕΟΛΟΓΩΝ
ΔΙΕΥΘΥΝΤΗΣ: ΕΠ. ΚΑΘΗΜΕΡΟΝ

ΙΩΑΝΝΙΝΑ 2006

λογαριθμοί
των αριθμών.

αριθ. λογ.

4968	3.696182
4969	3.696269
4970	3.696356
4971	3.696444
4972	3.696531
4973	3.696618
4974	3.696706
4975	3.696793
4976	3.696880
4977	3.696968
4978	3.697055
4979	3.697142
4980	3.697229
4981	3.697317
4982	3.697404
4983	3.697491
4984	3.697578
4985	3.697665
4986	3.697752
4987	3.697839
4988	3.697926
4989	3.698014
4990	3.698100
4991	3.698188
4992	3.698275
4993	3.698362
4994	3.698449
4995	3.698535
4996	3.698622
4997	3.698709
4998	3.698796
4999	3.698883
5000	3.698970

ημ. 36	εφα. 36	συνε. 36	συνη. 36		
0	9.769219	9.861261	10.138739	9.907958	60
1	9.769393	9.861527	10.138473	9.907866	59
2	9.769566	9.861792	10.138208	9.907774	58
3	9.769740	9.862058	10.137942	9.907682	57
4	9.769913	9.862323	10.137677	9.907590	56
5	9.770087	9.862589	10.137411	9.907498	55
6	9.770260	9.862854	10.137146	9.907406	54
7	9.770433	9.863119	10.136881	9.907314	53
8	9.770606	9.863385	10.136615	9.907222	52
9	9.770779	9.863650	10.136350	9.907129	51
10	9.770952	9.863915	10.136085	9.907037	50
11	9.771125	9.864180	10.135820	9.906945	49
12	9.771298	9.864445	10.135555	9.906852	48
13	9.771470	9.864710	10.135290	9.906760	47
14	9.771643	9.864975	10.135025	9.906667	46
15	9.771815	9.865240	10.134760	9.906575	45
16	9.771987	9.865505	10.134495	9.906482	44
17	9.772159	9.865770	10.134230	9.906389	43
18	9.772331	9.866035	10.133965	9.906296	42
19	9.772503	9.866300	10.133700	9.906204	41
20	9.772675	9.866564	10.133436	9.906111	40
21	9.772847	9.866829	10.133171	9.906018	39
22	9.773018	9.867094	10.132906	9.905925	38
23	9.773190	9.867358	10.132642	9.905832	37
24	9.773361	9.867623	10.132377	9.905739	36
25	9.773533	9.867887	10.132113	9.905645	35
26	9.773704	9.868152	10.131848	9.905552	34
27	9.773875	9.868416	10.131584	9.905459	33
28	9.774046	9.868680	10.131320	9.905366	32
29	9.774217	9.868945	10.131055	9.905272	31
30	9.774388	9.869209	10.130791	9.905179	30
συνη. 53		συνε. 53	εφα. 53	ημ. 55	

5001	3.699057
5002	3.699144
5003	3.699231
5004	3.699317
5005	3.699404
5006	3.699491
5007	3.699578
5008	3.699664
5009	3.699751

αριθ.	λογ.	αριθ.	λογ.	αριθ.	λογ.
5010	3.699838	5019	3.700617	5028	3.701395
5011	3.699924	5020	3.700704	5029	3.701482
5012	3.700011	5021	3.700790	5030	3.701568
5013	3.700098	5022	3.700877	5031	3.701654
5014	3.700184	5023	3.700963	5032	3.701741
5015	3.700271	5024	3.701050	5033	3.701827
5016	3.700358	5025	3.701136	5034	3.701913
5017	3.700444	5026	3.701222	5035	3.701999
5018	3.700531	5027	3.701309	5036	3.702086

ΠΑΝΕΠΙΣΤΗΜΙΟΝ
ΕΡΓΑΣΤΗΡΙΟ ΕΡΕΥΝΑΣ
ΔΙΕΥΘΥΝΤΗΣ

Ε.Δ. της Κ.τ.Π.
ΙΩΑΝΝΙΝΑ 2006

λογαριθμοί
των αριθμών

αριθ. λογ.

5037	3.702172
5038	3.702258
5039	3.702344
5040	3.702431
5041	3.702517
5042	3.702603
5043	3.702689
5044	3.702776
5045	3.702861
5046	3.702947
5047	3.703033
5048	3.703119
5049	3.703205
5050	3.703291
5051	3.703377
5052	3.703463
5053	3.703549
5054	3.703635
5055	3.703721
5056	3.703807
5057	3.703893
5058	3.703979
5059	3.704065
5060	3.704151
5061	3.704236
5062	3.704322
5063	3.704408
5064	3.704494
5065	3.704579
5066	3.704665

5067	3.704751
5068	3.704837
5069	3.704922
5070	3.705008
5071	3.705094
5072	3.705179
5073	3.705265
5074	3.705350
5075	3.705436
5076	3.705522
5077	3.705607
5078	3.705693

ημ. 36 εφα. 36 συνε. 36 συνη. 36

30	9.774388	9.869209	10.130791	9.905179	30
31	9.774558	9.869473	10.130587	9.905085	29
32	9.774729	9.869737	10.130263	9.904992	28
33	9.774899	9.870001	10.129999	9.904898	27
34	9.775070	9.870265	10.129735	9.904804	26
35	9.775240	9.870529	10.129471	9.904711	25
36	9.775410	9.870793	10.129207	9.904617	24
37	9.775580	9.871057	10.128943	9.904523	23
38	9.775750	9.871321	10.128679	9.904429	22
39	9.775920	9.871585	10.128415	9.904335	21
40	9.776090	9.871849	10.128151	9.904241	20
41	9.776259	9.872112	10.127888	9.904147	19
42	9.776429	9.872376	10.127624	9.904053	18
43	9.776598	9.872640	10.127360	9.903959	17
44	9.776767	9.872903	10.127097	9.903864	16
45	9.776937	9.873167	10.126833	9.903770	15
46	9.777106	9.873430	10.126570	9.903676	14
47	9.777275	9.873694	10.126306	9.903581	13
48	9.777444	9.873957	10.126043	9.903487	12
49	9.777613	9.874220	10.125780	9.903392	11
50	9.777781	9.874484	10.125516	9.903298	10
51	9.777950	9.874747	10.125253	9.903203	9
52	9.778119	9.875010	10.124990	9.903108	8
53	9.778287	9.875273	10.124727	9.903014	7
54	9.778455	9.875537	10.124463	9.902919	6
55	9.778624	9.875800	10.124200	9.902824	5
56	9.778792	9.876063	10.123937	9.902729	4
57	9.778960	9.876326	10.123674	9.902634	3
58	9.779128	9.876589	10.123411	9.902539	2
59	9.779295	9.876852	10.123148	9.902444	1
60	9.779463	9.877114	10.122886	9.902349	0

συνη. 53 συνε. 53 εφα. 53 ημ. 53

αριθ.	λογ.	αριθ.	λογ.	αριθ.	λογ.
5079	3.705778	5088	3.706547	5097	3.707315
5080	3.705864	5089	3.706632	5098	3.707400
5081	3.705949	5090	3.706718	5099	3.707485
5082	3.706035	5091	3.706803	5100	3.707570
5083	3.706120	5092	3.706888	5101	3.707655
5084	3.706206	5093	3.706974	5102	3.707740
5085	3.706291	5094	3.707059	5103	3.707826
5086	3.706376	5095	3.707144	5104	3.707911
5087	3.706462	5096	3.707229	5105	3.707996

ΠΑΝΕΠΙΣΤΗΜΙΟ
ΕΡΓΑΣΤΗΡΙΟ ΕΡΕΥΝΩΝ
ΔΙΕΥΘΥΝΤΗΣ: ΕΠ. ΚΑΡΑΪΩΑΝΝΙΔΗΣ

ΙΩΑΝΝΙΝΑ 2006

λογ αριθμοι
των αριθμων.

αριθ. λογ.

5106	3.708081
5107	3.708166
5108	3.708251
5109	3.708336
5110	3.708421
5111	3.708506
5112	3.708591
5113	3.708676
5114	3.708761
5115	3.708846
5116	3.708931
5117	3.709015
5118	3.709100
5119	3.709185
5120	3.709270
5121	3.709355
5122	3.709440
5123	3.709524
5124	3.709609
5125	3.709694
5126	3.709779
5127	3.709863
5128	3.709948
5129	3.710033
5130	3.710117
5131	3.710202
5132	3.710287
5133	3.710371
5134	3.710356
5135	3.710540

5136	3.710625
5137	3.710710
5138	3.710794
5139	3.710879
5140	3.710963
5141	3.711048
5142	3.711132
5143	3.711217
5144	3.711301
5145	3.711385
5146	3.711470
5147	3.711554

ημ. 37 εφα. 37 συνε 37 συνη. 37

0	9.779463	9.877114	10.122886	9.902349	60
1	9.779631	9.877377	10.122623	9.902253	59
2	9.779798	9.877640	10.122360	9.902158	58
3	9.779966	9.877903	10.122097	9.902063	57
4	9.780133	9.878165	10.121835	9.901967	56
5	9.780300	9.878428	10.121572	9.901872	55
6	9.780467	9.878691	10.121309	9.901776	54
7	9.780634	9.878953	10.121047	9.901681	53
8	9.780801	9.879216	10.120784	9.901585	52
9	9.780968	9.879478	10.120522	9.901490	51
10	9.781134	9.879741	10.120259	9.901394	50
11	9.781301	9.880003	10.119997	9.901298	49
12	9.781468	9.880265	10.119735	9.901202	48
13	9.781634	9.880528	10.119472	9.901106	47
14	9.781800	9.880790	10.119210	9.901010	46
15	9.781966	9.881052	10.118948	9.900914	45
16	9.782132	9.881314	10.118686	9.900818	44
17	9.782298	9.881577	10.118423	9.900722	43
18	9.782464	9.881839	10.118161	9.900626	42
19	9.782630	9.882101	10.117899	9.900529	41
20	9.782796	9.882363	10.117637	9.900433	40
21	9.782961	9.882625	10.117375	9.900337	39
22	9.783127	9.882887	10.117113	9.900240	38
23	9.783292	9.883148	10.116852	9.900144	37
24	9.783458	9.883410	10.116590	9.900047	36
25	9.783623	9.883672	10.116328	9.899951	35
26	9.783788	9.883934	10.116066	9.899854	34
27	9.783953	9.884196	10.115804	9.899757	33
28	9.784118	9.884457	10.115543	9.899660	32
29	9.784282	9.884719	10.115281	9.899564	31
30	9.784447	9.884980	10.115020	9.899467	30

συνη. 52 συν. 52 εφα 52 ημ. 52

αριθ.	λογ.	αριθ.	λογ.	αριθ.	λογ.
5148	3.711639	5157	3.712397	5166	3.713154
5149	3.711723	5158	3.712481	5167	3.713238
5150	3.711807	5159	3.712566	5168	3.713323
5151	3.711892	5160	3.712650	5169	3.713407
5152	3.711976	5161	3.712734	5170	3.713491
5153	3.712060	5162	3.712818	5171	3.713575
5154	3.712144	5163	3.712902	5172	3.713659
5155	3.712229	5164	3.712986	5173	3.713744
5156	3.712313	5165	3.713070	5174	3.713828

ΠΑΝΕΠΙΣΤΗΜΙΟΝ
ΕΡΓΑΣΤΗΡΙΟΝ ΕΡΕΥΝΑΣ
ΔΙΕΥΘΥΝΤΗΣ: Π. ΚΑΡΑΪΩΑΝΝΙΝΑ

Ε.Γ.Δ της Κ.τ.Π
ΙΩΑΝΝΙΝΑ 2006

λογαριθμοί
των αριθμών

αριθ.	λογ.
5175	3.713910
5176	3.713994
5177	3.714078
5178	3.714162
5179	3.714246
5180	3.714330
5181	3.714414
5182	3.714497
5183	3.714581
5184	3.714665
5185	3.714749
5186	3.714833
5187	3.714916
5188	3.715000
5189	3.715084
5190	3.715167
5191	3.715251
5192	3.715335
5193	3.715418
5194	3.715502
5195	3.715586
5196	3.715669
5197	3.715753
5198	3.715836
5199	3.715920
5200	3.716003
5201	3.716087
5202	3.716170
5203	3.716254
5204	3.716337

	ημ. 37	εαφ. 37	συνε. 37	συνη. 37	
30	9.784447	9.884980	10.115020	9.899467	30
31	9.784612	9.885242	10.114758	9.899370	29
32	9.784776	9.885504	10.114496	9.899273	28
33	9.784941	9.885765	10.114235	9.899176	27
34	9.785105	9.886026	10.113974	9.899078	26
35	9.785269	9.886288	10.113712	9.898981	25
36	9.785433	9.886549	10.113451	9.898884	24
37	9.785597	9.886811	10.113189	9.898787	23
38	9.785761	9.887072	10.112928	9.898689	22
39	9.785925	9.887333	10.112667	9.898592	21
40	9.786089	9.887594	10.112406	9.898494	20
41	9.786252	9.887855	10.112145	9.898397	19
42	9.786416	9.888116	10.111884	9.898299	18
43	9.786579	9.888378	10.111622	9.898202	17
44	9.786742	9.888639	10.111361	9.898104	16
45	9.786906	9.888900	10.111100	9.898006	15
46	9.787069	9.889161	10.110839	9.897908	14
47	9.787232	9.889421	10.110579	9.897810	13
48	9.787395	9.889682	10.110318	9.897712	12
49	9.787557	9.889943	10.110057	9.897614	11
50	9.787720	9.890204	10.109796	9.897516	10
51	9.787883	9.890465	10.109535	9.897418	9
52	9.788045	9.890725	10.109275	9.897320	8
53	9.788208	9.890986	10.109014	9.897222	7
54	9.788370	9.891247	10.108753	9.897123	6
55	9.788532	9.891507	10.108493	9.897025	5
56	9.788694	9.891768	10.108232	9.896926	4
57	9.788856	9.892028	10.107972	9.896828	3
58	9.789018	9.892289	10.107711	9.896729	2
59	9.789180	9.892549	10.107451	9.896631	1
60	9.789342	9.892810	10.107190	9.896532	0
	συνη. 52	συνε. 52	εαφ. 52	ημ. 52	

5205	3.716421
5206	3.716504
5207	3.716588
5208	3.716671
5209	3.716754
5210	3.716838
5211	3.716921
5212	3.717004
5213	3.717088
5214	3.717171
5215	3.717254
5216	3.717338

αριθ.	λογ.	αριθ.	λογ.	αριθ.	λογ.
5217	3.717421	5226	3.718169	5235	3.718917
5218	3.717504	5227	3.718253	5236	3.719000
5219	3.717587	5228	3.718336	5237	3.719083
5220	3.717671	5229	3.718419	5238	3.719165
5221	3.717754	5230	3.718502	5239	3.719248
5222	3.717837	5231	3.718585	5240	3.719331
5223	3.717920	5232	3.718668	5241	3.719414
5224	3.718003	5233	3.718751	5242	3.719497
5225	3.718086	5234	3.718834	5243	3.719580

ΙΩΑΝΝΙΝΑ 2006

Λογάρισμοι των αριθμῶν.		ἡμ. 38	ἔφα. 38	συνε. 38	συνη. 38		
5244	3.719663	0	9.789342	9.892810	10.107190	9.896532	60
5245	3.719745	1	9.789504	9.893070	10.106930	9.896433	59
5246	3.719828	2	9.789665	9.893331	10.106669	9.896335	58
5247	3.719911	3	9.789827	9.893591	10.106409	9.896236	57
5248	3.719994	4	9.789988	9.893851	10.106149	9.896137	56
5249	3.720077	5	9.790149	9.894111	10.105889	9.896038	55
5250	3.720159	6	9.790310	9.894372	10.105628	9.895939	54
5251	3.720242	7	9.790471	9.894632	10.105368	9.895840	53
5252	3.720325	8	9.790632	9.894892	10.105108	9.895741	52
5253	3.720407	9	9.790793	9.895152	10.104848	9.895641	51
5254	3.720490	10	9.790954	9.895412	10.104588	9.895542	50
5255	3.720573	11	9.791115	9.895672	10.104328	9.895443	49
5256	3.720655	12	9.791275	9.895932	10.104068	9.895343	48
5257	3.720738	13	9.791436	9.896192	10.103808	9.895244	47
5258	3.720821	14	9.791596	9.896452	10.103548	9.895145	46
5259	3.720903	15	9.791757	9.896712	10.103288	9.895045	45
5260	3.720986	16	9.791917	9.896971	10.103029	9.894945	44
5261	3.721068	17	9.792077	9.897231	10.102769	9.894846	43
5262	3.721151	18	9.792237	9.897491	10.102509	9.894746	42
5263	3.721233	19	9.792397	9.897751	10.102249	9.894646	41
5264	3.721316	20	9.792557	9.898010	10.101990	9.894546	40
5265	3.721398	21	9.792716	9.898270	10.101730	9.894446	39
5266	3.721481	22	9.792876	9.898530	10.101470	9.894346	38
5267	3.721563	23	9.793035	9.898789	10.101211	9.894246	37
5268	3.721646	24	9.793195	9.899049	10.100951	9.894146	36
5269	3.721728	25	9.793354	9.899308	10.100692	9.894046	35
5270	3.721811	26	9.793514	9.899568	10.100432	9.893946	34
5271	3.721893	27	9.793673	9.899827	10.100173	9.893846	33
5272	3.721975	28	9.793832	9.800086	10.099913	9.893745	32
5273	3.722058	29	9.793991	9.800346	10.099654	9.893645	31
5274	3.722140	30	9.794150	9.800605	10.099395	9.893544	30
5275	3.722222						
5276	3.722305						
5277	3.722387						
5278	3.722469						
5279	3.722552						
5280	3.722634						
5281	3.722716						
5282	3.722798						
5283	3.722881						
5284	3.722963						
5285	3.723045						

ἀριθ.	λογ.	ἀριθ.	λογ.	ἀριθ.	λογ.
5286	3.723127	5295	3.723866	5304	3.724604
5287	3.723209	5296	3.723948	5305	3.724685
5288	3.723291	5297	3.724030	5306	3.724767
5289	3.723374	5298	3.724112	5307	3.724849
5290	3.723456	5299	3.724194	5308	3.724931
5291	3.723538	5300	3.724276	5309	3.725013
5292	3.723620	5301	3.724358	5310	3.725095
5293	3.723702	5302	3.724440	5311	3.725176
5294	3.723784	5303	3.724522	5312	3.725258

ΠΑΝΕΠΙΣΤΗΜΙΑΚΟ ΚΕΝΤΡΟ ΕΡΕΥΝΑΣ ΚΑΙ ΔΙΔΑΚΤΙΚΗΣ ΒΟΗΘΗΣΙΑΣ
 ΕΡΓΑΣΤΗΡΙΟ ΕΡΕΥΝΑΣ ΚΑΙ ΔΙΔΑΚΤΙΚΗΣ ΒΟΗΘΗΣΙΑΣ
 ΔΙΕΥΘΥΝΤΗΣ: ΕΠ. ΚΑΘΗΓΗΤΗΣ Κ. Τ. ΠΙΤΑΚΗΣ

Κ. Τ. ΠΙΤΑΚΗΣ Κ. Τ. ΠΙ
 ΙΩΑΝΝΙΝΑ 2006

λογ. αριθμοί των αριθμών.		ήμ. 38	έφα. 38	συνε. 38	συνη. 38		
αριθ.	λογ.						
5313	3.725340	30	9.794150	9.900605	10.099395	9.893544	30
5314	3.725422	31	9.794308	9.900864	10.099136	9.893444	29
5315	3.725503	32	9.794467	9.901124	10.098876	9.893343	28
5316	3.725585	33	9.794626	9.901383	10.098617	9.893243	27
5317	3.725667	34	9.794784	9.901642	10.098358	9.893142	26
5318	3.725748	35	9.794942	9.901901	10.098099	9.893041	25
5319	3.725830	36	9.795101	9.902160	10.097840	9.892940	24
5320	3.725912	37	9.795259	9.902420	10.097580	9.892839	23
5321	3.725993	38	9.795417	9.902679	10.097321	9.892739	22
5322	3.726075	39	9.795575	9.902938	10.097062	9.892638	21
5323	3.726156	40	9.795733	9.903197	10.096803	9.892536	20
5324	3.726238	41	9.795891	9.903456	10.096544	9.892435	19
5325	3.726320	42	9.796049	9.903714	10.096286	9.892334	18
5326	3.726401	43	9.796206	9.903973	10.096027	9.892233	17
5327	3.726488	44	9.796364	9.904232	10.095768	9.892132	16
5328	3.726564	45	9.796521	9.904491	10.095509	9.892030	15
5329	3.726646	46	9.796679	9.904750	10.095250	9.891929	14
5330	3.726727	47	9.796836	9.905008	10.094991	9.891827	13
5331	3.726809	48	9.796993	9.905267	10.094733	9.891726	12
5332	3.726890	49	9.797150	9.905526	10.094474	9.891624	11
5333	3.726972	50	9.797307	9.905785	10.094215	9.891523	10
5334	3.727053	51	9.797464	9.906043	10.093957	9.891421	9
5335	3.727134	52	9.797621	9.906302	10.093698	9.891319	8
5336	3.727216	53	9.797777	9.906560	10.093440	9.891217	7
5337	3.727297	54	9.797934	9.906819	10.093181	9.891115	6
5338	3.727379	55	9.798091	9.907077	10.092923	9.891013	5
5339	3.727460	56	9.798247	9.907336	10.092664	9.890911	4
5340	3.727541	57	9.798403	9.907594	10.092406	9.890809	3
5341	3.727623	58	9.798560	9.907853	10.092147	9.890707	2
5342	3.727704	59	9.798716	9.908111	10.091889	9.890605	1
5343	3.727785	60	9.798872	9.908369	10.091631	9.890503	0
		συνη. 51	συνε. 51	έφα. 51	ήμ. 51		

αριθ.	λογ.	αριθ.	λογ.	αριθ.	λογ.		
5346	3.728029	5355	3.728759	5364	3.729489	5373	3.730217
5347	3.728110	5356	3.728841	5365	3.729570	5374	3.730298
5348	3.728191	5357	3.728922	5366	3.729651	5375	3.730378
5349	3.728273	5358	3.729003	5367	3.729732	5376	3.730459
5350	3.728354	5359	3.729084	5368	3.729813	5377	3.730540
5351	3.728435	5360	3.729165	5369	3.729893	5378	3.730621
5352	3.728516	5361	3.729246	5370	3.729974	5379	3.730701
5353	3.728597	5362	3.729327	5371	3.720055	5380	3.730782
5354	3.728678	5363	3.729408	5372	3.720136	5381	3.730863

ΠΑΝΕΠΙΣΤΗΜΙΑ
ΤΟΜΕΑΣ
ΕΡΓΑΣΤΗΡΙΟ ΕΡΕΥΝΩΝ
ΔΙΕΥΘΥΝΤΗΣ: ΕΠ. ΚΑΡΑΧΑΝΗΣ

ΚΑΡΑΧΑΝΗΣ Κ.Τ.Π.
ΙΩΑΝΝΙΝΑ 2006

λογ αριθμοι των αριθμων.		ημ. 39	εφα. 39	συνε 39	συνη. 39		
5382	3.730944	0	9.798872	9.908369	10.091631	9.890503	60
5383	3.731024	1	9.799028	9.908628	10.091372	9.890400	59
5384	3.731105	2	9.799184	9.908886	10.091114	9.890298	58
5385	3.731186	3	9.799339	9.909144	10.090856	9.890195	57
5386	3.731266	4	9.799495	9.909402	10.090598	9.890093	56
5387	3.731347	5	9.799651	9.909660	10.090310	9.889990	55
5388	3.731428	6	9.799806	9.909918	10.090082	9.889888	54
5389	3.731508	7	9.799962	9.910177	10.089823	9.889785	53
5390	3.731589	8	9.800117	9.910435	10.089565	9.889682	52
5391	3.731669	9	9.800272	9.910693	10.089307	9.889579	51
5392	3.731750	10	9.800427	9.910951	10.089049	9.889477	50
5393	3.731830	11	9.800582	9.911209	10.088791	9.889374	49
5394	3.731911	12	9.800737	9.911467	10.088533	9.889271	48
5395	3.731991	13	9.800892	9.911725	10.088275	9.889168	47
5396	3.732072	14	9.801047	9.911982	10.088018	9.889064	46
5397	3.732152	15	9.801201	9.912240	10.087760	9.888961	45
5398	3.732233	16	9.801356	9.912498	10.087502	9.888858	44
5399	3.732313	17	9.801511	9.912756	10.087244	9.888755	43
5400	3.732394	18	9.801665	9.913014	10.086986	9.888651	42
5401	3.732474	19	9.801819	9.913271	10.086729	9.888548	41
5402	3.732555	20	9.801973	9.913529	10.086471	9.888444	40
5403	3.732635	21	9.802128	9.913787	10.086213	9.888341	39
5404	3.732715	22	9.802282	9.914044	10.085956	9.888237	38
5405	3.732796	23	9.802436	9.914302	10.085698	9.888134	37
5406	3.732876	24	9.802589	9.914560	10.085440	9.888030	36
5407	3.732956	25	9.802743	9.914817	10.085183	9.887926	35
5408	3.733037	26	9.802897	9.915075	10.084925	9.887822	34
5409	3.733117	27	9.803050	9.915332	10.084668	9.887718	33
5410	3.733197	28	9.803204	9.915590	10.084410	9.887614	32
5411	3.733278	29	9.803357	9.915847	10.084153	9.887510	31
5412	3.733358	30	9.803511	9.916104	10.083896	9.887406	30
5413	3.733438	συνη. 50	συνη. 50	εφα. 50	εφα. 50	ημ. 50	
5414	3.733518						
5415	3.733598	αριθ.	λογ.	αριθ.	λογ.	αριθ.	λογ.
5416	3.733679	5424	3.734320	5433	3.735040	5442	3.735759
5417	3.733759	5425	3.734400	5434	3.735120	5443	3.735838
5418	3.733839	5426	3.734480	5435	3.735200	5444	3.735918
5419	3.733919	5427	3.734560	5436	3.735279	5445	3.735998
5420	3.733999	5428	3.734640	5437	3.735359	5446	3.736078
5421	3.734079	5429	3.734720	5438	3.735439	5447	3.736157
5422	3.734160	5430	3.734800	5439	3.735519	5448	3.736237
5423	3.734240	5431	3.734880	5440	3.735599	5449	3.736317
		5432	3.734960	5441	3.735679	5450	3.736397

ΠΑΝΕΠΙΣΤΗΜΙΟΝ
ΕΡΓΑΣΤΗΡΙΟ ΕΡΕΥΝΩΝ
ΔΙΕΥΘΥΝΤΗΣ: ΕΥΚΑΡΙΣΤΟΣ ΚΑΡΑΪΩΤΗΣ

Ε.Π.Α της Κ.τ.Π
ΙΩΑΝΝΙΝΑ 2006

λογαριθμοί των αριθμών		ημ. 39	εαφ. 39	συνε. 39	συνη. 39		
αριθ.	λογ.						
5451	3.736476	30	9.803511	9.916104	10.083896	9.887406	30
5452	3.736556	31	9.803664	9.916362	10.083638	9.887302	29
5453	3.736635	32	9.803817	9.916619	10.083381	9.887198	28
5454	3.736715	33	9.803970	9.916877	10.083123	9.887093	27
5455	3.736795	34	9.804123	9.917134	10.082866	9.886989	26
5456	3.736874	35	9.804276	9.917391	10.082609	9.886885	25
5457	3.736954	36	9.804428	9.917648	10.082352	9.886780	24
5458	3.737034	37	9.804581	9.917906	10.082094	9.886676	23
5459	3.737113	38	9.804734	9.918163	10.081837	9.886571	22
5460	3.737193	39	9.804886	9.918420	10.081580	9.886466	21
5461	3.737272	40	9.805039	9.918677	10.081323	9.886362	20
5462	3.737352	41	9.805191	9.918934	10.081066	9.886257	19
5463	3.737431	42	9.805343	9.919191	10.080809	9.886152	18
5464	3.737511	43	9.805495	9.919448	10.080552	9.886047	17
5465	3.737590	44	9.805647	9.919705	10.080295	9.885942	16
5466	3.737670	45	9.805799	9.919962	10.080038	9.885837	15
5467	3.737749	46	9.805951	9.920219	10.079781	9.885732	14
5468	3.737829	47	9.806103	9.920476	10.079524	9.885627	13
5469	3.737908	48	9.806254	9.920733	10.079267	9.885522	12
5470	3.737987	49	9.806406	9.920990	10.079010	9.885416	11
5471	3.738067	50	9.806557	9.921247	10.078753	9.885311	10
5472	3.738146	51	9.806709	9.921503	10.078497	9.885205	9
5473	3.738225	52	9.806860	9.921760	10.078240	9.885100	8
5474	3.738305	53	9.807011	9.922017	10.077983	9.884994	7
5475	3.738384	54	9.807163	9.922274	10.077726	9.884889	6
5476	3.738463	55	9.807314	9.922530	10.077470	9.884783	5
5477	3.738543	56	9.807465	9.922787	10.077213	9.884677	4
5478	3.738622	57	9.807615	9.923044	10.076956	9.884572	3
5479	3.738701	58	9.807766	9.923300	10.076700	9.884466	2
5480	3.738781	59	9.807917	9.923557	10.076443	9.884360	1
5481	3.738860	60	9.808067	9.923814	10.076186	9.884254	0
		συνη. 50	συνε. 50	εφα. 50	ημ. 50		
5481	3.738860	αριθ.	λογ.	αριθ.	λογ.	αριθ.	λογ.
5482	3.738939	5493	3.739810	5502	3.740521	5511	3.741230
5483	3.739018	5494	3.739889	5503	3.740600	5512	3.741309
5484	3.739097	5495	3.739968	5504	3.740678	5513	3.741388
5485	3.739177	5496	3.740047	5505	3.740757	5514	3.741467
5486	3.739256	5497	3.740126	5506	3.740836	5515	3.741546
5487	3.739335	5498	3.740205	5507	3.740915	5516	3.741624
5488	3.739414	5499	3.740284	5508	3.740994	5517	3.741703
5489	3.739493	5500	3.740363	5509	3.741073	5518	3.741782
5490	3.739572	5501	3.740442	5510	3.741152	5519	3.741860
5491	3.739651						
5492	3.739731						

λογαριθμοί
των αριθμών.

αριθμ. λογ.

5520	3.741939
5521	3.742018
5522	3.742096
5523	3.742175
5524	3.742254
5525	3.742332
5526	3.742411
5527	3.742489
5528	3.742568
5529	3.742647
5530	3.742725
5531	3.742804
5532	3.742882
5533	3.742961
5534	3.743039
5535	3.743118
5536	3.743196
5537	3.743275
5538	3.743353
5539	3.743431
5540	3.743510
5541	3.743588
5542	3.743667
5543	3.743745
5544	3.743823
5545	3.743902
5546	3.743980
5547	3.744058
5548	3.744136
5549	3.744215

5550	3.744293
5551	3.744371
5552	3.744449
5553	3.744528
5554	3.744606
5555	3.744684
5556	3.744762
5557	3.744840
5558	3.744919
5559	3.744997
5560	3.745075
5561	3.745153

ημ. 40	εφα. 40	συνε. 40	συνη. 40
0	9.808067	9.923814	10.076186
1	9.808218	9.924070	10.075930
2	9.808368	9.924327	10.075673
3	9.808519	9.924583	10.075417
4	9.808669	9.924840	10.075160
5	9.808819	9.925096	10.074904
6	9.808969	9.925352	10.074648
7	9.809119	9.925609	10.074391
8	9.809269	9.925865	10.074135
9	9.809419	9.926122	10.073878
10	9.809569	9.926378	10.073622
11	9.809718	9.926634	10.073366
12	9.809868	9.926890	10.073110
13	9.810017	9.927147	10.072853
14	9.810167	9.927403	10.072597
15	9.810316	9.927659	10.072341
16	9.810465	9.927915	10.072085
17	9.810614	9.928171	10.071829
18	9.810763	9.928427	10.071573
19	9.810912	9.928684	10.071316
20	9.811061	9.928940	10.071060
21	9.811210	9.929196	10.070804
22	9.811358	9.929452	10.070548
23	9.811507	9.929708	10.070292
24	9.811655	9.929964	10.070036
25	9.811804	9.930220	10.069780
26	9.811952	9.930475	10.069523
27	9.812100	9.930731	10.069269
28	9.812248	9.930987	10.069013
29	9.812396	9.931243	10.068757
30	9.812544	9.931499	10.068501
συνη. 49	συνε. 49	εφα. 49	ημ. 49

αριθμ.	λογ.	αριθμ.	λογ.	αριθμ.	λογ.
5562	3.745231	5571	3.745933	5580	3.746634
5563	3.745309	5572	3.746011	5581	3.746712
5564	3.745387	5573	3.746089	5582	3.746790
5565	3.745465	5574	3.746167	5583	3.746868
5566	3.745543	5575	3.746245	5584	3.746945
5567	3.745621	5576	3.746323	5585	3.747023
5568	3.745699	5577	3.746401	5586	3.747101
5569	3.745777	5578	3.746478	5587	3.747179
5570	3.745855	5579	3.746556	5588	3.747256

ΠΑΝΕΠΙΣΤΗΜΙΟΝ
ΕΡΓΑΣΤΗΡΙΟΝ ΕΡΕΥΝΩΝ
ΔΙΕΥΘΥΝΤΗΣ: ΕΠ. ΚΑΡΑΧΑΛΩΝΗ

ΙΩΑΝΝΙΝΑ 2006

λογαριθμοί
τῶν ἀριθμῶν

ἀριθ. λογ.

5589	3.747334
5590	3.747412
5591	3.747489
5592	3.747567
5593	3.747645
5594	3.747722
5595	3.747800
5596	3.747878
5597	3.747955
5598	3.748033
5599	3.748110
5600	3.748188
5601	3.748266
5602	3.748343
5603	3.748421
5604	3.748498
5605	3.748576
5606	3.748653
5607	3.748731
5608	3.748808
5609	3.748885
5610	3.748963
5611	3.749040
5612	3.749118
5613	3.749195
5614	3.749272
5615	3.749350
5616	3.749427
5617	3.749504
5618	3.749582

5619	3.749659
5620	3.749736
5621	3.749814
5622	3.749891
5623	3.749968
5624	3.750045
5625	3.750123
5626	3.750200
5627	3.750277
5628	3.750354
5629	3.750431
5630	3.750508

ἡμ. 40 ἔφα. 40 συνε. 40 συνη. 40

30	9.812544	9.931499	10.068501	9.881046	30
31	9.812692	9.931755	10.068245	9.880938	29
32	9.812840	9.932010	10.067990	9.880830	28
33	9.812988	9.932266	10.067734	9.880722	27
34	9.813135	9.932522	10.067478	9.880613	26
35	9.813283	9.932778	10.067222	9.880505	25
36	9.813430	9.933033	10.066967	9.880397	24
37	9.813578	9.933289	10.066711	9.880289	23
38	9.813725	9.933545	10.066455	9.880180	22
39	9.813872	9.933800	10.066200	9.880072	21
40	9.814019	9.934056	10.065944	9.879963	20
41	9.814166	9.934311	10.065689	9.879855	19
42	9.814313	9.934567	10.065433	9.879746	18
43	9.814460	9.934822	10.065178	9.879637	17
44	9.814607	9.935078	10.064922	9.879529	16
45	9.814753	9.935333	10.064667	9.879420	15
46	9.814900	9.935589	10.064411	9.879311	14
47	9.815046	9.935844	10.064156	9.879202	13
48	9.815193	9.936100	10.063900	9.879093	12
49	9.815339	9.936355	10.063645	9.878984	11
50	9.815485	9.936611	10.063389	9.878875	10
51	9.815632	9.936866	10.063134	9.878766	9
52	9.815778	9.937121	10.062879	9.878656	8
53	9.815924	9.937377	10.062623	9.878547	7
54	9.816069	9.937632	10.062368	9.878438	6
55	9.816215	9.937887	10.062113	9.878328	5
56	9.816361	9.938142	10.061858	9.878219	4
57	9.816507	9.938398	10.061602	9.878109	3
58	9.816652	9.938653	10.061347	9.877999	2
59	9.816798	9.938908	10.061092	9.877890	1
60	9.816943	9.939163	10.060837	9.877780	0

συνη. 49 συνε. 49 ἔφα. 49 ἡμ. 49

ἀριθ.	λογ.	ἀριθ.	λογ.	ἀριθ.	λογ.
5631	3.750586	5640	3.751279	5649	3.751972
5632	3.750663	5641	3.751356	5650	3.752048
5633	3.750740	5642	3.751433	5651	3.752125
5634	3.750817	5643	3.751510	5652	3.752202
5635	3.750894	5644	3.751587	5653	3.752279
5636	3.750971	5645	3.751664	5654	3.752356
5637	3.751048	5646	3.751741	5655	3.752433
5638	3.751125	5647	3.751818	5656	3.752509
5639	3.751202	5648	3.751895	5657	3.752586

ΠΑΝΕΠΙΣΤΗΜΙΟ
ΤΟΜΕΑΣ ΦΥΣΙΚΩΝ
ΕΡΓΑΣΤΗΡΙΟ ΕΡΕΥΝΩΝ ΜΑΘΗΜΑΤΩΝ
ΔΙΕΥΘΥΝΤΗΣ: ΕΠ. ΚΑΘ. ΓΕΩΡΓΙΟΣ Κ. ΠΑΠΑΝΔΡΟΥ

ΙΩΑΝΝΙΝΑ 2006

λογ αριθμοι της αριθμων.		ημ. 41	εφα. 41	συνε 41	συνη. 41	
5658	3.752663	9.816943	9.939163	10.060837	9.877780	60
5659	3.752740	9.817088	9.939418	10.060582	9.877670	59
5660	3.752816	9.817233	9.939673	10.060327	9.877560	58
5661	3.752893	9.817379	9.939928	10.060072	9.877450	57
5662	3.752970	9.817524	9.940183	10.059817	9.877340	56
5663	3.753047	9.817668	9.940439	10.059561	9.877230	55
5664	3.753123	9.817813	9.940694	10.059306	9.877120	54
5665	3.753200	9.817958	9.940949	10.059051	9.877010	53
5666	3.753277	9.818103	9.941204	10.058796	9.876899	52
5667	3.753353	9.818247	9.941459	10.058541	9.876789	51
5668	3.753430	9.818392	9.941713	10.058287	9.876678	50
5669	3.753506	9.818536	9.941968	10.058032	9.876568	49
5670	3.753583	9.818681	9.942223	10.057777	9.876457	48
5671	3.753660	9.818825	9.942478	10.057522	9.876347	47
5672	3.753736	9.818969	9.942733	10.057267	9.876236	46
5673	3.753813	9.819113	9.942988	10.057012	9.876125	45
5674	3.753889	9.819257	9.943243	10.056757	9.876014	44
5675	3.753966	9.819401	9.943498	10.056502	9.875904	43
5676	3.754042	9.819545	9.943752	10.056248	9.875793	42
5677	3.754119	9.819689	9.944007	10.055993	9.875682	41
5678	3.754195	9.819832	9.944262	10.055738	9.875571	40
5679	3.754272	9.819976	9.944517	10.055483	9.875459	39
5680	3.754348	9.820120	9.944771	10.055229	9.875348	38
5681	3.754425	9.820263	9.945026	10.054974	9.875237	37
5682	3.754501	9.820406	9.945281	10.054719	9.875126	36
5683	3.754578	9.820550	9.945535	10.054465	9.875014	35
5684	3.754654	9.820693	9.945790	10.054210	9.874903	34
5685	3.754730	9.820836	9.946045	10.053955	9.874791	33
5686	3.754807	9.820979	9.946299	10.053701	9.874680	32
5687	3.754883	9.821122	9.946554	10.053446	9.874568	31
5688	3.754960	9.821265	9.946808	10.053192	9.874456	30
5689	3.755036	συνη. 48	συνε. 48	εφα. 48	ημ. 48	1
5690	3.755112					
5691	3.755189					
5692	3.755265					
5693	3.755341					
5694	3.755417					
5695	3.755494					
5696	3.755570					
5697	3.755646					
5698	3.755722					
5699	3.755799					
5700	3.755875					
5701	3.755951					
5702	3.756027					
5703	3.756103					
5704	3.756180					
5705	3.756256					
5706	3.756332					
5707	3.756408					
5708	3.756484					
5709	3.756560					
5710	3.756636					
5711	3.756712					
5712	3.756788					
5713	3.756864					
5714	3.756940					
5715	3.757016					
5716	3.757092					
5717	3.757168					
5718	3.757244					
5719	3.757320					
5720	3.757396					
5721	3.757472					
5722	3.757548					
5723	3.757624					
5724	3.757700					
5725	3.757775					
5726	3.757851					

ΠΑΝΕΠΙΣΤΗΜΙΟΝ
ΕΡΓΑΣΤΗΡΙΟ ΕΡΕΥΝΑΣ
ΔΙΕΥΘΥΝΤΗΣ

Ε.Π.Δ της Κ.τ.Π
ΙΩΑΝΝΙΝΑ 2006

λογαριθμοί ἤ ἀριθμῶν		ἡμ. 41	ἔφα. 41	συνε. 41	συνη. 41		
ἀριθ.	λογ.						
5727	3.757927	30	9.821265	9.946808	10.053192	9.874456	30
5728	3.758003	31	9.821407	9.947063	10.052937	9.874344	29
5729	3.758079	32	9.821550	9.947318	10.052682	9.874232	28
5730	3.758155	33	9.821693	9.947572	10.052428	9.874121	27
5731	3.758230	34	9.821835	9.947827	10.052173	9.874009	26
5732	3.758306	35	9.821977	9.948081	10.051919	9.873896	25
5733	3.758382	36	9.822120	9.948335	10.051665	9.873784	24
5734	3.758458	37	9.822262	9.948590	10.051410	9.873672	23
5735	3.758533	38	9.822404	9.948844	10.051156	9.873560	22
5736	3.758609	39	9.822546	9.949099	10.050901	9.873448	21
5737	3.758685	40	9.822688	9.949353	10.050647	9.873335	20
5738	3.758761	41	9.822830	9.949608	10.050392	9.873223	19
5739	3.758836	42	9.822972	9.949862	10.050138	9.873110	18
5740	3.758912	43	9.823114	9.950116	10.049884	9.872998	17
5741	3.758988	44	9.823255	9.950371	10.049629	9.872885	16
5742	3.759063	45	9.823397	9.950625	10.049375	9.872772	15
5743	3.759139	46	9.823539	9.950379	10.049121	9.872659	14
5744	3.759214	47	9.823680	9.951133	10.048867	9.872547	13
5745	3.759290	48	9.823821	9.951388	10.048612	9.872434	12
5746	3.759366	49	9.823963	9.951642	10.048358	9.872321	11
5747	3.759441	50	9.824104	9.951896	10.048104	9.872208	10
5748	3.759517	51	9.824245	9.952150	10.047850	9.872095	9
5749	3.759592	52	9.824386	9.952405	10.047595	9.871981	8
5750	3.759668	53	9.824527	9.952659	10.047341	9.871868	7
5751	3.759743	54	9.824668	9.952913	10.047087	9.871755	6
5752	3.759819	55	9.824808	9.953167	10.046833	9.871641	5
5753	3.759894	56	9.824949	9.953421	10.046579	9.871528	4
5754	3.759970	57	9.825090	9.953675	10.046325	9.871414	3
5755	3.760045	58	9.825230	9.953929	10.046071	9.871301	2
5756	3.760121	59	9.825371	9.954183	10.045817	9.871187	1
5757	3.760196	60	9.825511	9.954437	10.045563	9.871073	0
5758	3.760272		συνη. 48	συνε. 48	ἔφα. 48	ἡμ. 48	
5759	3.760347						
5760	3.760422	5769	3.761401	5778	3.761778	5787	3.762453
5761	3.760498	5770	3.761176	5779	3.761853	5788	3.762529
5762	3.760573	5771	3.761251	5780	3.761928	5789	3.762604
5763	3.760649	5772	3.761326	5781	3.762003	5790	3.762679
5764	3.760724	5773	3.761402	5782	3.762078	5791	3.762754
5765	3.760799	5774	3.761477	5783	3.762153	5792	3.762829
5766	3.760875	5775	3.761552	5784	3.762228	5793	3.762904
5767	3.760950	5776	3.761627	5785	3.762303	5794	3.762978
5768	3.761025	5777	3.761702	5786	3.762378	5795	3.763053

ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ
 ΤΟΜΕΑΣ ΦΙΛΟΣΟΦΙΑΣ
 ΕΡΓΑΣΤΗΡΙΟ ΕΡΕΥΝΩΝ ΝΕΟΛΟΓΩΝ
 ΔΙΕΥΘΥΝΤΗΣ: ΕΠ. ΚΑΘΗΜΕΡΗ

ΙΩΑΝΝΙΝΑ 2006