

$y'+2xy=-2y/(x(1+x^2)), y(1)=2/e$ [1,4]						
h=0.1						
i	x_i	y_i (approx)	$f(x_i,y_i)$ (slope)		$y(x_i)$ (actual)	e_i (error)
0	1	0.7357588823	-2.207276647		0.7357588823	0
1	1.1	0.5150312176	-1.556788315		0.544641312	0.02961009438
2	1.2	0.3593523862	-1.107905007		0.4014609244	0.04210853828
3	1.3	0.2485618855	-0.7884181144		0.2937026743	0.04514078882
4	1.4	0.169720074	-0.5571274399		0.2127249622	0.04300488818
5	1.5	0.11400733	-0.3887942281		0.1522433244	0.03823599433
6	1.6	0.07512790723	-0.266788484		0.1075019047	0.03237399745
7	1.7	0.04844905882	-0.1793794717		0.07480673601	0.02635767718
8	1.8	0.03051111166	-0.1178355763		0.05125151704	0.02074040538
9	1.9	0.01872755403	-0.07544089072		0.03454543326	0.01581787923
10	2	0.01118346496	-0.04697055281		0.02289454861	0.01171108366
11	2.1	0.006486409674	-0.02838479365		0.0149114546	0.008425044921
12	2.2	0.003647930309	-0.016618753		0.009540742905	0.005892812596
13	2.3	0.00198605501	-0.009410416535		0.005994834033	0.004008779023
14	2.4	0.001045013356	-0.005144887255		0.003698179584	0.002653166228
15	2.5	0.000530524630	-0.002711163802		0.002239326798	0.001708802167
16	2.6	0.000259408250	-0.001374637435		0.00133071278	0.001071304529
17	2.7	0.000121944506	-0.000669396506		0.000775925865	0.000653981358
18	2.8	0.000055004855	-0.000312471670		0.000443881928	0.000388877072
19	2.9	0.000023757688	-0.000139535786		0.000249101897	0.000225344208
20	3	0.000009804110	-0.000059478268		0.000137122004	0.000127317894
21	3.1	0.000003856283	-0.000024143445		0.000074032433	0.000070176150
22	3.2	0.000001441938	-0.000009308587		0.000039200432	0.000037758493
23	3.3	0.000000511080	-0.000003399175		0.000020355748	0.000019844667
24	3.4	0.000000171162	-0.000001171918		0.000010365436	0.000010194274
25	3.5	0.000000053970	-0.000000380115		0.000005175739	0.000005121768
26	3.6	0.000000015958	-0.000000115535		0.000002534101	0.000002518142
27	3.7	0.000000004404	-0.000000032757		0.000001216541	0.000001212136
28	3.8	0.000000001129	-0.000000008615		0.000000572621	0.000000571492
29	3.9	0.000000000267	-0.000000002095		0.000000264262	0.000000263994
30	4	0	-0.000000000465		0.000000119568	0.000000119510
h=0.01						
i	x_i	y_i (approx)	$f(x_i,y_i)$ (slope)		$y(x_i)$ (actual)	e_i (error)
0	1	2	-2		1.367879441	-0.6321205588
1	1.01	1.98	-1.9796		1.360558882	-0.6194411175
2	1.02	1.960204	-1.95881616		1.353313328	-0.6068906716
3	1.03	1.940615838	-1.937668627		1.34614414	-0.594471698
4	1.04	1.921239152	-1.916177436		1.339052607	-0.5821865449
5	1.05	1.902077378	-1.894362493		1.332039945	-0.5700374324

6	1.06	1.883133753	-1.872243556		1.325107299	-0.5580264537
7	1.07	1.864411317	-1.849840219		1.318255742	-0.5461555755
8	1.08	1.845912915	-1.827171897		1.311486276	-0.5344266392
9	1.09	1.827641196	-1.804257808		1.304799834	-0.5228413622
10	1.1	1.809598618	-1.78111696		1.298197279	-0.5114013386
11	1.11	1.791787448	-1.757768136		1.291679407	-0.5001080411
12	1.12	1.774209767	-1.734229878		1.285246945	-0.488962822
13	1.13	1.756867468	-1.710520478		1.278900553	-0.4779669149
14	1.14	1.739762264	-1.686657961		1.272640828	-0.467121436
15	1.15	1.722895684	-1.662660073		1.266468298	-0.4564273861
16	1.16	1.706269083	-1.638544273		1.260383431	-0.4458856523
17	1.17	1.68988364	-1.614327719		1.254386631	-0.4354970095
18	1.18	1.673740363	-1.590027257		1.248478241	-0.4252621226
19	1.19	1.657840091	-1.565659416		1.242658542	-0.4151815485
20	1.2	1.642183497	-1.541240392		1.236927759	-0.4052557379
21	1.21	1.626771093	-1.516786044		1.231286055	-0.3954850373
22	1.22	1.611603232	-1.492311887		1.22573354	-0.3858696918
23	1.23	1.596680113	-1.467833079		1.220270267	-0.3764098463
24	1.24	1.582001783	-1.443364421		1.214896234	-0.3671055485
25	1.25	1.567568138	-1.418920346		1.209611387	-0.3579567512
26	1.26	1.553378935	-1.394514916		1.204415621	-0.3489633139
27	1.27	1.539433786	-1.370161816		1.19930878	-0.340125006
28	1.28	1.525732168	-1.345874349		1.194290659	-0.3314415088
29	1.29	1.512273424	-1.321665434		1.189361006	-0.3229124178
30	1.3	1.49905677	-1.297547601		1.184519524	-0.3145372457
31	1.31	1.486081294	-1.27353299		1.179765869	-0.3063154242
32	1.32	1.473345964	-1.249633344		1.175099657	-0.2982463071
33	1.33	1.46084963	-1.225860017		1.170520458	-0.2903291722
34	1.34	1.44859103	-1.202223961		1.166027806	-0.2825632244
35	1.35	1.436568791	-1.178735735		1.161621192	-0.2749475981
36	1.36	1.424781433	-1.155405498		1.157300074	-0.2674813595
37	1.37	1.413227378	-1.132243016		1.153063869	-0.2601635092
38	1.38	1.401904948	-1.109257657		1.148911963	-0.2529929851
39	1.39	1.390812372	-1.086458393		1.144843707	-0.2459686644
40	1.4	1.379947788	-1.063853805		1.140858421	-0.2390893667
41	1.41	1.36930925	-1.041452084		1.136955394	-0.2323538559
42	1.42	1.358894729	-1.01926103		1.133133885	-0.2257608433
43	1.43	1.348702118	-0.9972880587		1.129393129	-0.2193089898
44	1.44	1.338729238	-0.9755402049		1.12573233	-0.2129969082
45	1.45	1.328973836	-0.9540241237		1.12215067	-0.2068231662
46	1.46	1.319433595	-0.9327460961		1.118647306	-0.2007862883
47	1.47	1.310106134	-0.9117120327		1.115221375	-0.1948847585
48	1.48	1.300989013	-0.8909274792		1.111871991	-0.1891170224
49	1.49	1.292079738	-0.8703976206		1.108598248	-0.18348149

50	1.5	1.283375762	-0.8501272868		1.105399225	-0.1779765377
51	1.51	1.274874489	-0.8301209579		1.102273979	-0.1726005106
52	1.52	1.26657328	-0.8103827706		1.099221555	-0.1673517248
53	1.53	1.258469452	-0.7909165234		1.096240982	-0.1622284697
54	1.54	1.250560287	-0.7717256835		1.093331277	-0.1572290102
55	1.55	1.24284303	-0.7528133931		1.090491442	-0.1523515884
56	1.56	1.235314896	-0.7341824758		1.08772047	-0.1475944263
57	1.57	1.227973071	-0.715835444		1.085017344	-0.1429557277
58	1.58	1.220814717	-0.6977745054		1.082381037	-0.1384336797
59	1.59	1.213836972	-0.6800015705		1.079810516	-0.1340264555
60	1.6	1.207036956	-0.6625182597		1.07730474	-0.1297322157
61	1.61	1.200411774	-0.6453259108		1.074862663	-0.1255491102
62	1.62	1.193958514	-0.6284255868		1.072483234	-0.1214752805
63	1.63	1.187674259	-0.6118180829		1.070165398	-0.1175088609
64	1.64	1.181556078	-0.595503935		1.067908097	-0.1136479806
65	1.65	1.175601038	-0.5794834267		1.065710273	-0.1098907652
66	1.66	1.169806204	-0.5637565977		1.063570866	-0.1062353384
67	1.67	1.164168638	-0.5483232514		1.061488814	-0.1026798237
68	1.68	1.158685406	-0.5331829629		1.05946306	-0.09922234566
69	1.69	1.153353576	-0.5183350869		1.057492545	-0.09586103148
70	1.7	1.148170225	-0.5037787655		1.055576213	-0.09259401252
71	1.71	1.143132437	-0.4895129362		1.053713012	-0.0894194256
72	1.72	1.138237308	-0.4755363399		1.051901894	-0.08633541431
73	1.73	1.133481945	-0.4618475287		1.050141814	-0.08334013031
74	1.74	1.128863469	-0.4484448736		1.048431735	-0.08043173451
75	1.75	1.124379021	-0.4353265724		1.046770622	-0.07760839831
76	1.76	1.120025755	-0.4224906575		1.04515745	-0.07486830465
77	1.77	1.115800848	-0.4099350033		1.043591199	-0.0722096491
78	1.78	1.111701498	-0.3976573342		1.042070857	-0.06963064091
79	1.79	1.107724925	-0.3856552316		1.040595421	-0.06712950394
80	1.8	1.103868373	-0.3739261417		1.039163895	-0.06470447761
81	1.81	1.100129111	-0.3624673829		1.037775294	-0.06235381774
82	1.82	1.096504437	-0.3512761523		1.03642864	-0.06007579744
83	1.83	1.092991676	-0.3403495339		1.035122968	-0.05786870781
84	1.84	1.089588181	-0.3296845046		1.033857322	-0.05573085874
85	1.85	1.086291336	-0.3192779415		1.032630756	-0.05366057956
86	1.86	1.083098556	-0.3091266288		1.031442336	-0.0516562197
87	1.87	1.08000729	-0.299227264		1.030291141	-0.04971614929
88	1.88	1.077015017	-0.2895764647		1.029176257	-0.04783875971
89	1.89	1.074119253	-0.2801707747		1.028096788	-0.04602246413
90	1.9	1.071317545	-0.2710066703		1.027051847	-0.04426569795
91	1.91	1.068607478	-0.2620805664		1.026040559	-0.04256691924
92	1.92	1.065986672	-0.2533888222		1.025062063	-0.04092460918
93	1.93	1.063452784	-0.2449277471		1.024115512	-0.03933727237

94	1.94	1.061003507	-0.2366936062		1.02320007	-0.03780343715
95	1.95	1.058636571	-0.2286826257		1.022314915	-0.03632165591
96	1.96	1.056349744	-0.2208909982		1.021459239	-0.03489050535
97	1.97	1.054140834	-0.2133148877		1.020632248	-0.03350858665
98	1.98	1.052007686	-0.2059504349		1.01983316	-0.03217452568
99	1.99	1.049948181	-0.1987937613		1.019061208	-0.03088697315
100	2	1.047960244	-0.1918409745		1.018315639	-0.02964460472
101	2.01	1.046041834	-0.1850881722		1.017595713	-0.02844612111
102	2.02	1.044190952	-0.1785314467		1.016900704	-0.02729024813
103	2.03	1.042405638	-0.172166889		1.016229901	-0.02617573672
104	2.04	1.040683969	-0.1659905927		1.015582606	-0.025101363
105	2.05	1.039024063	-0.1599986577		1.014958135	-0.02406592816
106	2.06	1.037424076	-0.1541871943		1.014355818	-0.02306825852
107	2.07	1.035882204	-0.148552326		1.013774999	-0.02210720539
108	2.08	1.034396681	-0.1430901933		1.013215036	-0.02118164499
109	2.09	1.032965779	-0.1377969568		1.012675301	-0.02029047838
110	2.1	1.03158781	-0.1326688002		1.012155178	-0.01943263125
111	2.11	1.030261122	-0.1277019331		1.011654068	-0.01860705387
112	2.12	1.028984102	-0.1228925935		1.011171381	-0.01781272082
113	2.13	1.027755176	-0.1182370511		1.010706545	-0.01704863086
114	2.14	1.026572806	-0.1137316088		1.010258999	-0.01631380673
115	2.15	1.02543549	-0.1093726058		1.009828195	-0.01560729488
116	2.16	1.024341764	-0.105156419		1.009413598	-0.01492816529
117	2.17	1.023290199	-0.1010794657		1.009014688	-0.01427551118
118	2.18	1.022279405	-0.09713820497		1.008630956	-0.01364844878
119	2.19	1.021308023	-0.09332913969		1.008261906	-0.01304611703
120	2.2	1.020374731	-0.089648818		1.007907054	-0.01246767731
121	2.21	1.019478243	-0.08609383487		1.00756593	-0.01191231315
122	2.22	1.018617305	-0.08266083347		1.007238075	-0.01137922989
123	2.23	1.017790696	-0.07934650639		1.006923042	-0.01086765443
124	2.24	1.016997231	-0.07614759683		1.006620397	-0.01037683483
125	2.25	1.016235755	-0.0730608996		1.006329715	-0.00990604004
126	2.26	1.015505146	-0.07008326205		1.006050587	-0.00945455955
127	2.27	1.014804314	-0.06721158488		1.005782611	-0.00902170303
128	2.28	1.014132198	-0.06444282289		1.005525398	-0.00860680001
129	2.29	1.01348777	-0.06177398556		1.00527857	-0.00820919950
130	2.3	1.01287003	-0.05920213762		1.00504176	-0.00782826965
131	2.31	1.012278009	-0.05672439946		1.004814611	-0.00746339741
132	2.32	1.011710765	-0.0543379475		1.004596776	-0.00711398813
133	2.33	1.011167385	-0.05204001444		1.00438792	-0.00677946521
134	2.34	1.010646985	-0.04982788946		1.004187715	-0.00645926976
135	2.35	1.010148706	-0.04769891835		1.003995846	-0.00615286020
136	2.36	1.009671717	-0.04565050353		1.003812005	-0.00585971192
137	2.37	1.009215212	-0.043680104		1.003635895	-0.00557931688

138	2.38	1.008778411	-0.04178523528		1.003467227	-0.005311183289
139	2.39	1.008360558	-0.03996346925		1.003305723	-0.005054835189
140	2.4	1.007960924	-0.0382124339		1.003151112	-0.00480981213
141	2.41	1.007578799	-0.03652981306		1.003003131	-0.004575668787
142	2.42	1.007213501	-0.03491334609		1.002861527	-0.004351974601
143	2.43	1.006864368	-0.0333608275		1.002726054	-0.004138313426
144	2.44	1.00653076	-0.03187010647		1.002596476	-0.003934283165
145	2.45	1.006212058	-0.03043908645		1.002472563	-0.003739495423
146	2.46	1.005907668	-0.02906572456		1.002354092	-0.00355357515
147	2.47	1.00561701	-0.02774803112		1.00224085	-0.003376160302
148	2.48	1.00533953	-0.02648406898		1.002132629	-0.003206901489
149	2.49	1.005074689	-0.02527195295		1.002029228	-0.003045461644
150	2.5	1.00482197	-0.02410984909		1.001930454	-0.002891515682
151	2.51	1.004580871	-0.02299597406		1.001836121	-0.002744750171
152	2.52	1.004350912	-0.0219285944		1.001746049	-0.002604863009
153	2.53	1.004131626	-0.02090602575		1.001660063	-0.002471563098
154	2.54	1.003922565	-0.01992663216		1.001577995	-0.00234457003
155	2.55	1.003723299	-0.01898882522		1.001499685	-0.002223613774
156	2.56	1.003533411	-0.01809106335		1.001424976	-0.002108434373
157	2.57	1.0033525	-0.01723185091		1.001353719	-0.001998781639
158	2.58	1.003180182	-0.01640973741		1.001285767	-0.001894414859
159	2.59	1.003016084	-0.01562331664		1.001220982	-0.001795102507
160	2.6	1.002859851	-0.01487122587		1.001159229	-0.001700621954
161	2.61	1.002711139	-0.0141521449		1.00110038	-0.001610759194
162	2.62	1.002569617	-0.01346479528		1.001044309	-0.00152530857
163	2.63	1.002434969	-0.0128079394		1.000990897	-0.001444072503
164	2.64	1.00230689	-0.01218037959		1.000940029	-0.00136686123
165	2.65	1.002185086	-0.01158095727		1.000891594	-0.001293492558
166	2.66	1.002069277	-0.01100855207		1.000845485	-0.001223791594
167	2.67	1.001959191	-0.01046208092		1.000801601	-0.001157590521
168	2.68	1.00185457	-0.00994049721		1.000759842	-0.001094728344
169	2.69	1.001755165	-0.009442789867		1.000720115	-0.001035050665
170	2.7	1.001660738	-0.008967982523		1.000682328	-0.000978409451
171	2.71	1.001571058	-0.00851513262		1.000646395	-0.000924662817
172	2.72	1.001485906	-0.008083330559		1.000612232	-0.000873674804
173	2.73	1.001405073	-0.007671698837		1.000579758	-0.000825315173
174	2.74	1.001328356	-0.007279391202		1.000548897	-0.000779459197
175	2.75	1.001255562	-0.006905591807		1.000519575	-0.000735987464
176	2.76	1.001186506	-0.006549514382		1.000491721	-0.000694785683
177	2.77	1.001121011	-0.00621040141		1.000465267	-0.000655744492
178	2.78	1.001058907	-0.005887523313		1.000440148	-0.000618759286
179	2.79	1.001000032	-0.005580177654		1.000416302	-0.000583730004
180	2.8	1.00094423	-0.005287688342		1.000393669	-0.000550561026
181	2.81	1.000891353	-0.005009404859		1.000372192	-0.000519160914

182	2.82	1.000841259	-0.004744701488		1.000351817	-0.000489442338
183	2.83	1.000793812	-0.004492976566		1.00033249	-0.000461321857
184	2.84	1.000748882	-0.00425365174		1.000314163	-0.000434719788
185	2.85	1.000706346	-0.004026171238		1.000296786	-0.000409560063
186	2.86	1.000666084	-0.003810001159		1.000280314	-0.000385770074
187	2.87	1.000627984	-0.003604628774		1.000264704	-0.000363280547
188	2.88	1.000591938	-0.00340956184		1.000249912	-0.000342025394
189	2.89	1.000557842	-0.003224327922		1.000235901	-0.000321941594
190	2.9	1.000525599	-0.003048473746		1.00022263	-0.000302969064
191	2.91	1.000495114	-0.002881564553		1.000210064	-0.000285050539
192	2.92	1.000466299	-0.002723183467		1.000198167	-0.00026813145
193	2.93	1.000439067	-0.002572930886		1.000186907	-0.000252159818
194	2.94	1.000413337	-0.002430423884		1.000176251	-0.000237086141
195	2.95	1.000389033	-0.002295295623		1.00016617	-0.000222863289
196	2.96	1.00036608	-0.002167194784		1.000156634	-0.000209446406
197	2.97	1.000344408	-0.002045785019		1.000147615	-0.000196792804
198	2.98	1.00032395	-0.001930744397		1.000139089	-0.000184861883
199	2.99	1.000304643	-0.00182176489		1.000131028	-0.000173615021
200	3	1.000286425	-0.001718551856		1.00012341	-0.000163015504
201	3.01	1.00026924	-0.00162082354		1.000116211	-0.000153028434
202	3.02	1.000253032	-0.001528310594		1.000109411	-0.00014362065
203	3.03	1.000237748	-0.001440755603		1.000102988	-0.000134760647
204	3.04	1.000223341	-0.001357912633		1.000096922	-0.000126418503
205	3.05	1.000209762	-0.001279546779		1.000091196	-0.000118565810
206	3.06	1.000196966	-0.001205433757		1.000085791	-0.000111175603
207	3.07	1.000184912	-0.001135359445		1.00008069	-0.000104222292
208	3.08	1.000173558	-0.001069119543		1.000075877	-0.000097681598
209	3.09	1.000162867	-0.001006519122		1.000071337	-0.000091530497
210	3.1	1.000152802	-0.00094737228		1.000067055	-0.000085747156
211	3.11	1.000143328	-0.000891501763		1.000063017	-0.000080310878
212	3.12	1.000134413	-0.000838738618		1.000059211	-0.000075202049
213	3.13	1.000126026	-0.000788921846		1.000055624	-0.000070402087
214	3.14	1.000118137	-0.000741898077		1.000052243	-0.000065893392
215	3.15	1.000110718	-0.000697521224		1.000049058	-0.000061659297
216	3.16	1.000103742	-0.0006555652237		1.000046058	-0.000057684024
217	3.17	1.000097186	-0.000616158734		1.000043233	-0.000053952640
218	3.18	1.000091024	-0.000578914757		1.000040573	-0.000050451018
219	3.19	1.000085235	-0.000543800482		1.000038069	-0.000047165794
220	3.2	1.000079797	-0.000510701958		1.000035713	-0.000044084330
221	3.21	1.00007469	-0.000479510833		1.000033495	-0.000041194679
222	3.22	1.000069895	-0.000450124138		1.00003141	-0.000038485547
223	3.23	1.000065394	-0.000422444020		1.000029448	-0.000035946264
224	3.24	1.000061169	-0.000396377524		1.000027603	-0.000033566754
225	3.25	1.000057206	-0.000371836372		1.000025868	-0.000031337494

226	3.26	1.000053487	-0.000348736752		1.000024238	-0.000029249500
227	3.27	1.00005	-0.000326999113		1.000022706	-0.000027294287
228	3.28	1.00004673	-0.000306547968		1.000021266	-0.000025463852
229	3.29	1.000043664	-0.000287311710		1.000019914	-0.000023750647
230	3.3	1.000040791	-0.000269222425		1.000018644	-0.000022147534
231	3.31	1.000038099	-0.000252215726		1.000017451	-0.000020647814
232	3.32	1.000035577	-0.000236230583		1.000016332	-0.000019245153
233	3.33	1.000033215	-0.000221209164		1.000015281	-0.000017933584
234	3.34	1.000031002	-0.000207096683		1.000014295	-0.000016707487
235	3.35	1.000028932	-0.000193841256		1.00001337	-0.000015561568
236	3.36	1.000026993	-0.000181393754		1.000012502	-0.000014490844
237	3.37	1.000025179	-0.000169707677		1.000011689	-0.000013490620
238	3.38	1.000023482	-0.000158739022		1.000010926	-0.000012556483
239	3.39	1.000021895	-0.000148446158		1.00001021	-0.000011684275
240	3.4	1.00002041	-0.000138789714		1.00000954	-0.000010870089
241	3.41	1.000019022	-0.000129732460		1.000008912	-0.000010110249
242	3.42	1.000017725	-0.000121239207		1.000008324	-0.000009401299
243	3.43	1.000016513	-0.000113276698		1.000007773	-0.000008739992
244	3.44	1.00001538	-0.000105813514		1.000007257	-0.000008123277
245	3.45	1.000014322	-0.000098819979		1.000006773	-0.000007548286
246	3.46	1.000013334	-0.000092268077		1.000006321	-0.000007012326
247	3.47	1.000012411	-0.000086131337		1.000005898	-0.000006512877
248	3.48	1.00001155	-0.000080384813		1.000005502	-0.000006047548
249	3.49	1.000010746	-0.000075004944		1.000005132	-0.000005614129
250	3.5	1.000009996	-0.000069969512		1.000004785	-0.000005210527
251	3.51	1.000009296	-0.000065257568		1.000004461	-0.000004834787
252	3.52	1.000008643	-0.000060849357		1.000004158	-0.000004485056
253	3.53	1.000008035	-0.000056726258		1.000003875	-0.000004159628
254	3.54	1.000007468	-0.000052870733		1.000003611	-0.000003856888
255	3.55	1.000006939	-0.000049266264		1.000003364	-0.000003575314
256	3.56	1.000006446	-0.000045897284		1.000003133	-0.000003313499
257	3.57	1.000005987	-0.000042749143		1.000002917	-0.000003070114
258	3.58	1.00000556	-0.000039808050		1.000002716	-0.000002843918
259	3.59	1.000005162	-0.000037061027		1.000002528	-0.000002633748
260	3.6	1.000004791	-0.000034495867		1.000002353	-0.000002438517
261	3.61	1.000004446	-0.000032101088		1.000002189	-0.000002257209
262	3.62	1.000004125	-0.000029865897		1.000002036	-0.000002088877
263	3.63	1.000003826	-0.000027780130		1.000001894	-0.000001932616
264	3.64	1.000003549	-0.000025834266		1.000001761	-0.000001787612
265	3.65	1.00000329	-0.000024019338		1.000001637	-0.000001653082
266	3.66	1.00000305	-0.000022326929		1.000001522	-0.000001528307
267	3.67	1.000002827	-0.000020749138		1.000001414	-0.000001412597
268	3.68	1.000002619	-0.000019278538		1.000001314	-0.000001305320
269	3.69	1.000002427	-0.000017908167		1.000001221	-0.000001205897

270	3.7	1.000002247	-0.00001663149		1.000001134	-0.000001113772
271	3.71	1.000002081	-0.00001544238		1.000001053	-0.000001028429
272	3.72	1.000001927	-0.00001433509		1.000000977	-0.000000949389
273	3.73	1.000001783	-0.00001330423		1.000000907	-0.000000876206
274	3.74	1.00000165	-0.00001234474		1.000000842	-0.000000808463
275	3.75	1.000001527	-0.00001145189		1.000000781	-0.000000745770
276	3.76	1.000001412	-0.00001062125		1.000000725	-0.000000687761
277	3.77	1.000001306	-0.00000984865		1.000000672	-0.000000634115
278	3.78	1.000001208	-0.00000913022		1.000000623	-0.000000584502
279	3.79	1.000001116	-0.00000846230		1.000000578	-0.000000538635
280	3.8	1.000001032	-0.00000784149		1.000000536	-0.000000496241
281	3.81	1.000000953	-0.00000726461		1.000000496	-0.000000457068
282	3.82	1.000000881	-0.00000672866		1.00000046	-0.000000420881
283	3.83	1.000000813	-0.00000623086		1.000000426	-0.000000387459
284	3.84	1.000000751	-0.00000576860		1.000000395	-0.000000356601
285	3.85	1.000000693	-0.00000533944		1.000000365	-0.000000328116
286	3.86	1.00000064	-0.00000494110		1.000000338	-0.000000301829
287	3.87	1.000000591	-0.00000457146		1.000000313	-0.000000277577
288	3.88	1.000000545	-0.00000422853		1.00000029	-0.000000255207
289	3.89	1.000000503	-0.00000391044		1.000000268	-0.000000234580
290	3.9	1.000000464	-0.00000361548		1.000000248	-0.000000215564
291	3.91	1.000000427	-0.00000334202		1.000000229	-0.000000198038
292	3.92	1.000000394	-0.00000308855		1.000000212	-0.000000181889
293	3.93	1.000000363	-0.00000285367		1.000000196	-0.000000167014
294	3.94	1.000000335	-0.00000263606		1.000000181	-0.000000153314
295	3.95	1.000000308	-0.00000243450		1.000000167	-0.000000140702
296	3.96	1.000000284	-0.00000224785		1.000000155	-0.000000129093
297	3.97	1.000000261	-0.00000207505		1.000000143	-0.000000118410
298	3.98	1.000000241	-0.00000191510		1.000000132	-0.000000108583
299	3.99	1.000000221	-0.00000176709		1.000000122	-0.000000099544
300	4	1.000000204	-0.00000163015		1.000000113	-0.000000091234
301	4.01	1.000000187	-0.00000150349		1.000000104	-0.000000083595
302	4.02	1.000000172	-0.00000138636		1.000000096	-0.000000076575
303	4.03	1.000000159	-0.00000127806		1.000000088	-0.000000070125
304	4.04	1.000000146	-0.00000117972		1.000000082	-0.000000064202
305	4.05	1.000000134	-0.00000108547		1.000000075	-0.000000058762
306	4.06	1.000000123	-0.00000100001		1.000000069	-0.000000053769
307	4.07	1.000000113	-0.00000092107		1.000000064	-0.000000049187
308	4.08	1.000000104	-0.00000084817		1.000000059	-0.000000044982
309	4.09	1.000000095	-0.00000078087		1.000000054	-0.000000041126
310	4.1	1.000000088	-0.00000071875		1.00000005	-0.000000037590
311	4.11	1.00000008	-0.00000066142		1.000000046	-0.000000034349
312	4.12	1.000000074	-0.00000060853		1.000000042	-0.000000031378
313	4.13	1.000000068	-0.00000055974		1.000000039	-0.000000028656

314	4.14	1.000000062	-0.000000514755		1.000000036	-0.000000026162
315	4.15	1.000000057	-0.000000473272		1.000000033	-0.000000023879
316	4.16	1.000000052	-0.000000435036		1.000000030	-0.000000021789
317	4.17	1.000000048	-0.000000399800		1.000000028	-0.000000019877
318	4.18	1.000000044	-0.000000367338		1.000000026	-0.000000018126
319	4.19	1.000000040	-0.000000337437		1.000000024	-0.000000016526
320	4.2	1.000000037	-0.000000309892		1.000000022	-0.000000015062
321	4.21	1.000000034	-0.000000284537		1.000000020	-0.000000013724
322	4.22	1.000000031	-0.000000261198		1.000000018	-0.000000012507
323	4.23	1.000000028	-0.000000239720		1.000000017	-0.000000011384
324	4.24	1.000000026	-0.000000219958		1.000000016	-0.000000010363
325	4.25	1.000000024	-0.000000201780		1.000000014	-0.000000009437
326	4.26	1.000000022	-0.000000185063		1.000000013	-0.000000008581
327	4.27	1.000000020	-0.000000169693		1.000000012	-0.000000007804
328	4.28	1.000000018	-0.000000155568		1.000000011	-0.000000007096
329	4.29	1.000000017	-0.000000142587		1.000000010	-0.000000006450
330	4.3	1.000000015	-0.000000130657		1.000000009	-0.000000005861
331	4.31	1.000000014	-0.000000119693		1.000000009	-0.000000005324
332	4.32	1.000000013	-0.000000109629		1.000000008	-0.000000004835
333	4.33	1.000000012	-0.000000100389		1.000000007	-0.000000004390
334	4.34	1.000000011	-0.000000091907		1.000000007	-0.000000003984
335	4.35	1.000000010	-0.000000084122		1.000000006	-0.000000003615
336	4.36	1.000000009	-0.000000076987		1.000000006	-0.000000003278
337	4.37	1.000000008	-0.000000070429		1.000000005	-0.000000002972
338	4.38	1.000000007	-0.000000064427		1.000000005	-0.000000002694
339	4.39	1.000000007	-0.000000058912		1.000000004	-0.000000002441
340	4.4	1.000000006	-0.000000053867		1.000000004	-0.000000002217
341	4.41	1.000000006	-0.000000049233		1.000000004	-0.000000002002
342	4.42	1.000000005	-0.000000044993		1.000000003	-0.000000001812
343	4.43	1.000000005	-0.000000041108		1.000000003	-0.000000001640
344	4.44	1.000000004	-0.000000037550		1.000000003	-0.000000001484
345	4.45	1.000000004	-0.000000034293		1.000000003	-0.000000001341
346	4.46	1.000000004	-0.000000031317		1.000000002	-0.000000001213
347	4.47	1.000000003	-0.000000028582		1.000000002	-0.000000001096
348	4.48	1.000000003	-0.000000026088		1.000000002	-0.000000000990
349	4.49	1.000000003	-0.000000023807		1.000000002	-0.000000000894
350	4.5	1.000000002	-0.000000021712		1.000000002	-0.000000000807
351	4.51	1.000000002	-0.000000019807		1.000000001	-0.000000000728
352	4.52	1.000000002	-0.000000018058		1.000000001	-0.000000000657
353	4.53	1.000000002	-0.000000016459		1.000000001	-0.000000000592
354	4.54	1.000000002	-0.000000015007		1.000000001	-0.000000000534
355	4.55	1.000000002	-0.000000013669		1.000000001	-0.000000000481
356	4.56	1.000000001	-0.000000012452		1.000000001	-0.000000000433
357	4.57	1.000000001	-0.000000011347		1.000000001	-0.000000000390

358	4.58	1.000000001	-0.000000010327		1.000000001	-0.00000000035
359	4.59	1.000000001	-0.000000009407		1.000000001	-0.000000000314
360	4.6	1.000000001	-0.000000008557		1.000000001	-0.000000000284
361	4.61	1.000000001	-0.000000007787		1.000000001	-0.000000000254
362	4.62	1.000000001	-0.000000007084		1.000000001	-0.000000000229
363	4.63	1.000000001	-0.000000006444		1	-0.000000000206
364	4.64	1.000000001	-0.000000005859		1	-0.000000000184
365	4.65	1.000000001	-0.000000005327		1	-0.000000000165
366	4.66	1.000000001	-0.000000004847		1	-0.000000000148
367	4.67	1	-0.000000004406		1	-0.000000000133
368	4.68	1	-0.000000003998		1	-0.000000000119
369	4.69	1	-0.000000003637		1	-0.000000000107
370	4.7	1	-0.000000003298		1	0
371	4.71	1	-0.000000002994		1	0
372	4.72	1	-0.000000002718		1	0
373	4.73	1	-0.000000002466		1	0
374	4.74	1	-0.000000002238		1	0
375	4.75	1	-0.000000002030		1	0
376	4.76	1	-0.000000001847		1	0
377	4.77	1	-0.000000001669		1	0
378	4.78	1	-0.000000001511		1	0
379	4.79	1	-0.000000001377		1	0
380	4.8	1	-0.000000001242		1	0
381	4.81	1	-0.000000001125		1	0
382	4.82	1	-0.000000001019		1	0
383	4.83	1	-0.000000000923		1	0
384	4.84	1	-0.000000000839		1	0
385	4.85	1	-0.000000000756		1	0
386	4.86	1	-0.000000000684		1	0
387	4.87	1	-0.000000000619		1	0
388	4.88	1	-0.000000000560		1	0
389	4.89	1	-0.000000000506		1	0
390	4.9	1	-0.000000000457		1	0
391	4.91	1	-0.000000000411		1	0
392	4.92	1	-0.000000000373		1	0
393	4.93	1	-0.000000000337		1	0
394	4.94	1	-0.000000000308		1	0
395	4.95	1	-0.000000000279		1	0
396	4.96	1	-0.000000000248		1	0
397	4.97	1	-0.000000000224		1	0
398	4.98	1	-0.000000000202		1	0
399	4.99	1	-0.000000000182		1	0
400	5	1	-0.000000000164		1	0

y'+2xy=-2y/(x(1+x^2)), y(1)=2/e [1,4]										
h=0.1										
i	x_i	y_i (approx)	y_1(x_i)	u_i	f(x_i,y_i) (slope)	y(x_i) (actual)	e_i (error)	u(x_i)	u-error	
0	1	0.7357588823	0.3678794412		-2	0.7357588823	0			
1	1.1	0.536755103	0.2981972794	1.8	-1.480872069	0.544641312	0.007886209043	1.826446281	0.02644628099	
2	1.2	0.3913839956	0.2369277587	1.651912793	-1.128355733	0.4014609244	0.01007692883	1.694444444	0.04253165136	
3	1.3	0.283989796	0.184519524	1.53907722	-0.8802271775	0.2937026743	0.0097128783	1.591715976	0.05263875654	
4	1.4	0.2043932458	0.1408584209	1.451054502	-0.7003158794	0.2127249622	0.008331716379	1.510204082	0.05914957959	
5	1.5	0.1455587442	0.1053992246	1.381022914	-0.5665735032	0.1522433244	0.006684580118	1.444444444	0.06342153034	
6	1.6	0.1023797362	0.07730474044	1.324365564	-0.4650159985	0.1075019047	0.005122168518	1.390625	0.06625943621	
7	1.7	0.07101883935	0.05557621261	1.277863964	-0.3864702749	0.07480673601	0.003787896658	1.346020761	0.06815679731	
8	1.8	0.0485325621	0.0391638951	1.239216936	-0.3247423838	0.05125151704	0.002718954939	1.308641975	0.06942503886	
9	1.9	0.03264461868	0.02705184687	1.206742698	-0.2755434863	0.03454543326	0.001900814581	1.27700831	0.07026561218	
10	2	0.02159758799	0.01831563889	1.179188349	-0.2358376699	0.02289454861	0.001296960621	1.25	0.07081165056	
11	2.1	0.01404657978	0.01215517833	1.155604582	-0.2034336031	0.0149114546	0.000864874816	1.22675737	0.07115278716	
12	2.2	0.008976571846	0.007907054052	1.135261222	-0.176721859	0.009540742905	0.000564171059	1.20661157	0.07135034811	
13	2.3	0.00563461599	0.00504176026	1.117589036	-0.1545018368	0.005994834033	0.000360218043	1.189035917	0.07144688058	
14	2.4	0.003472962521	0.003151111598	1.102138853	-0.1358652432	0.003698179584	0.000225217062	1.173611111	0.07147225854	
15	2.5	0.002101400345	0.001930454136	1.088552328	-0.120116119	0.002239326798	0.000137926453	1.16	0.07144767175	
16	2.6	0.0012479574050	0.001159229174	1.076540716	-0.1067149798	0.00133071278	0.000082755374	1.147928994	0.07138827773	
17	2.7	0.000727272468	0.000682328052	1.065869218	-0.09523917423	0.000775925865	0.000048653396	1.137174211	0.07130499288	
18	2.8	0.000415850441	0.000393669040	1.056345301	-0.08535433912	0.000443881928	0.000028031487	1.12755102	0.07120571946	
19	2.9	0.000233273760	0.00022629856	1.047809867	-0.07679357009	0.000249101897	0.000015828136	1.118906064	0.07109619717	
20	3	0.000128362302	0.000123409804	1.04013051	-0.069342034	0.000137122004	0.000008759702	1.111111111	0.07098060108	
21	3.1	0.000069280796	0.000067054824	1.033196307	-0.06282547242	0.000074032433	0.000004751636	1.104058273	0.070861966	
22	3.2	0.000036674016	0.000035712849	1.026913759	-0.05710152132	0.000039200432	0.000002526415	1.09765625	0.07074249061	
23	3.3	0.000019039056	0.000018643742	1.021203607	-0.05205309311	0.000020355748	0.000001316691	1.091827365	0.0706237573	
24	3.4	0.000009692789	0.000009540162	1.015998298	-0.04758328484	0.000010365436	0.000000672647	1.08650519	0.07050689237	
25	3.5	0.000004838901	0.000004785117	1.011239969	-0.04361142725	0.000005175739	0.000000336837	1.081632653	0.0703926836	
26	3.6	0.000002368758	0.000002352575	1.006878827	-0.0400699947	0.000002534101	0.000000165342	1.077160494	0.07028166709	
27	3.7	0.000001136983	0.000001133727	1.002871827	-0.03690217016	0.000001216541	0.000000079558	1.073046019	0.07017419173	
28	3.8	0.000000535096	0.000000535534	0.9991816102	-0.03405991308	0.000000572621	0.000000037525	1.069252078	0.07007046731	
29	3.9	0.000000246912	0.000000247959	0.9957756189	-0.03150241601	0.000000264262	0.000000017349	1.06574622	0.06997060065	
30	4	0.000000111705	0.000000112535	0.9926253773	-0.02919486404	0.000000119568	0.000000007863	1.0625	0.06987462266	

y'+2xy=-2y/(x(1+x^2)), y(1)=2/e [1,4]									
h=0.1									
i	x_i	y_i (approx)	f(x_i,y_i) (slope 1)	y_i+hf(x_i,y_i)	f(x_{i+1}, y_i+hf(x_i,y_i)) (slope 2)	average slope		y(x_i) (actual)	e_i (error)
0	1	0.7357588823	-2.207276647	0.5150312176	-1.556788315	-1.882032481		0.7357588823	0
1	1.1	0.5475556342	-1.655100087	0.3820456255	-1.177869628	-1.416484858		0.544641312	-0.00291432223
2	1.2	0.4059071485	-1.251436138	0.2807635347	-0.8905591307	-1.070997634		0.4014609244	-0.00444622406
3	1.3	0.2988073851	-0.9477927586	0.2040281092	-0.6697478705	-0.8087703145		0.2937026743	-0.00510471079
4	1.4	0.2179303536	-0.7153837322	0.1463919804	-0.4992341896	-0.6073089609		0.2127249622	-0.00520539141
5	1.5	0.1571994575	-0.5360904577	0.1035904118	-0.3678623555	-0.4519764066		0.1522433244	-0.00495613316
6	1.6	0.1120018169	-0.3977322946	0.07222858741	-0.267421621	-0.3325769578		0.1075019047	-0.00449991219
7	1.7	0.07874412109	-0.2915449584	0.04958962525	-0.1915178357	-0.241531397		0.07480673601	-0.00393738508
8	1.8	0.05459098139	-0.2108333457	0.03350764681	-0.134980079	-0.1729067123		0.05125151704	-0.00333946434
9	1.9	0.03730031015	-0.1502582034	0.02227448981	-0.09355285721	-0.1219055303		0.03454543326	-0.00275487689
10	2	0.02510975712	-0.1054609799	0.01456365913	-0.06373116716	-0.08459607353		0.02289454861	-0.00221520851
11	2.1	0.01665014977	-0.0728617354	0.009363976228	-0.04265915048	-0.05776044294		0.0149114546	-0.00173869517
12	2.2	0.01087410547	-0.04953879532	0.005920225942	-0.02805148489	-0.03879514011		0.009540742905	-0.00133336256
13	2.3	0.006994591463	-0.03314209266	0.003680382197	-0.01811953058	-0.02563081162		0.005994834033	-0.00099757430
14	2.4	0.004431510301	-0.02181754016	0.002249756285	-0.01149703039	-0.01665728528		0.003698179584	-0.00073333071
15	2.5	0.002765781773	-0.01413409858	0.001352371915	-0.007166391446	-0.01065024501		0.002239326798	-0.00052645497
16	2.6	0.001700757272	-0.009012529932	0.000799504279	-0.004388761634	-0.00670064578		0.00133071278	-0.00037004449
17	2.7	0.001030692694	-0.005657836575	0.0004649090364	-0.002641055975	-0.00414944627		0.000775925865	-0.00025476682
18	2.8	0.000615748066	-0.003497942571	0.0002659538093	-0.001562023743	-0.00252998315		0.000443881928	-0.00017186613
19	2.9	0.000362749750	-0.002130534339	0.0001496963167	-0.0009081576548	-0.00151934599		0.000249101897	-0.00011364785
20	3	0.000210815151	-0.001278945249	0.00008292062604	-0.0005191500283	-0.00089904763		0.000137122004	-0.00007369314
21	3.1	0.000120910387	-0.0007569965867	0.00004521072842	-0.0002918626036	-0.00052442959		0.000074032433	-0.00004687795
22	3.2	0.000068467427	-0.0004419986665	0.00002426756092	-0.0001614028754	-0.00030170077		0.000039200432	-0.00002926699
23	3.3	0.000038297350	-0.000254714617	0.00001282588877	-0.00008781673158	-0.00017126567		0.000020355748	-0.00001794160
24	3.4	0.000021170783	-0.0001449528376	0.00000667549928	-0.00004701638716	-0.00009598461		0.000010365436	-0.00001080534
25	3.5	0.000011572321	-0.0000815053285	0.00000342178895	-0.00002477305482	-0.00005313919		0.000005175739	-0.00000639658
26	3.6	0.000006258402	-0.0000453095599	0.00000172744664	-0.00001284666918	-0.00002907811		0.000002534101	-0.00000372430
27	3.7	0.000003350591	-0.0000249176647	0.00000085882470	-0.000006556343221	-0.00001573700		0.000001216541	-0.00000213404
28	3.8	0.000001776890	-0.0000135649402	0.00000042039675	-0.000003292394399	-0.00000842866		0.000000572621	-0.00000120426
29	3.9	0.000000934024	-0.0000073149364	0.00000020253040	-0.000001626200034	-0.00000447056		0.000000264262	-0.00000066976
30	4	0.000000486967	-0.0000039100603	0.00000009596118	#DIV/0!	#DIV/0!		0.000000119568	-0.00000036739

