

x0	0										
y0	50										
m_segment	500			y=0.1x-3y^0.5							
h	0.1										
xn	yn	k1	xi+h/2	y+k1*h/2	k2	xi+h/2	y+(k2*h/2)	k3	x+h	y+k3*h	k4
0	50	-21.213203	0.05	48.93933983	-20.981997	0.05	48.9509001	-20.984476	0.1	47.9015524	-20.753284
0.1	47.9016761	-20.753311	0.15	46.86401054	-20.522188	0.15	46.8755667	-20.524272	0.2	45.8492041	-20.293612
0.2	45.8493304	-20.29364	0.25	44.83464843	-20.062604	0.25	44.8462002	-20.065192	0.3	43.8428113	-19.834171
0.3	43.8429404	-19.834201	0.35	42.85123036	-19.603255	0.35	42.8627776	-19.605901	0.4	41.8823503	-19.374972
0.4	41.8824823	-19.375003	0.45	40.91373214	-19.144153	0.45	40.9252746	-19.14686	0.5	39.9677963	-18.916027
0.5	39.9679314	-18.916059	0.55	39.02212845	-18.685308	0.55	39.033666	-18.688079	0.6	38.0991235	-18.457346
0.6	38.0992617	-18.45738	0.65	37.17639275	-18.226734	0.65	37.187925	-18.229571	0.7	36.2763046	-17.998944
0.7	36.2764462	-17.998979	0.75	35.3764972	-17.768443	0.75	35.388024	-17.77135	0.8	34.4993112	-17.540834
0.8	34.4994562	-17.540871	0.85	33.62241259	-17.310451	0.85	33.6339336	-17.313431	0.9	32.7681131	-17.083032
0.9	32.7682617	-17.083071	0.95	31.91410817	-16.852772	0.95	31.9256231	-16.855829	1	31.0826788	-16.625553
1	31.0828313	-16.625594	1.05	30.2515516	-16.395423	1.05	30.2630601	-16.398561	1.1	29.4429751	-16.168414
1.1	29.4431317	-16.168458	1.15	28.63470878	-15.938423	1.15	28.6462105	-15.941646	1.2	27.848967	-15.711636
1.2	27.8491278	-15.711682	1.25	27.0635437	-15.48179	1.25	27.0750383	-15.485104	1.3	26.3006174	-15.255238
1.3	26.3007827	-15.255287	1.35	25.53801833	-15.025546	1.35	25.5495053	-15.028956	1.4	24.7978871	-14.799243
1.4	24.7980571	-14.799294	1.45	24.05809239	-14.569715	1.45	24.0695714	-14.573225	1.5	23.3407346	-14.343675
1.5	23.3409096	-14.343729	1.55	22.62372317	-14.114321	1.55	22.6351936	-14.117937	1.6	21.9291159	-13.88856
1.6	21.9292962	-13.888618	1.65	21.23486531	-13.659391	1.65	21.2463267	-13.663121	1.7	20.5629841	-13.433928
1.7	20.56317	-13.433989	1.75	19.89147056	-13.204956	1.75	19.9029222	-13.208807	1.8	19.2422893	-12.97981
1.8	19.2424812	-12.979876	1.85	18.59348745	-12.75105	1.85	18.6049287	-12.755029	1.9	17.9669783	-12.526242
1.9	17.9671766	-12.526312	1.95	17.34086104	-12.297708	1.95	17.3522912	-12.301824	2	16.7369942	-12.073261
2	16.7371993	-12.073337	2.05	16.13353251	-11.844971	2.05	16.1449508	-11.849234	2.1	15.5522759	-11.620912
2.1	15.5524884	-11.620993	2.15	14.97143872	-11.392883	2.15	14.9828442	-11.397304	2.2	14.412758	-11.169242
2.2	14.4129782	-11.169329	2.25	13.85451181	-10.941495	2.25	13.8659035	-10.946085	2.3	13.3183698	-10.718303
2.3	13.3185984	-10.718396	2.35	12.78267858	-10.490862	2.35	12.7940553	-10.495634	2.4	12.269035	-10.268155
2.4	12.2692727	-10.268256	2.45	11.75585989	-10.041046	2.45	11.7672204	-10.046015	2.5	11.2646712	-9.8188649
2.5	11.2649187	-9.8189755	2.55	10.77396989	-9.5921178	2.55	10.7853128	-9.5973	2.6	10.3051887	-9.3705087
2.6	10.3054467	-9.3706293	2.65	9.83691521	-9.1441571	2.65	9.84823882	-9.1495711	2.7	9.39048956	-8.9231717
2.7	9.39075905	-8.9233036	2.75	8.944593869	-8.6972542	2.75	8.95589634	-8.7029211	2.8	8.52046694	-8.4769517
2.8	8.52074895	-8.4770966	2.85	8.096894125	-8.2515126	2.85	8.10817332	-8.2574563	2.9	7.69500332	-8.0319607
2.9	7.69529904	-8.0321206	2.95	7.293693005	-7.8070514	2.95	7.30494647	-7.8132993	3	6.9139691	-7.5883282
3	6.91427986	-7.5885055	3.05	6.53485459	-7.3640085	3.05	6.54607944	-7.3705922	3.1	6.17722065	-7.1462045
3.1	6.17754801	-7.1464021	3.15	5.820227904	-6.9225446	3.15	5.83142078	-6.9295005	3.2	5.48459796	-6.7057656
3.2	5.48494371	-6.705987	3.25	5.149644364	-6.4828484	3.25	5.1608013	-6.4902191	3.3	4.8359218	-6.2672188
3.3	4.83628803	-6.2674686	3.35	4.522914603	-6.0451435	3.35	4.53403086	-6.0529792	3.4	4.23099012	-5.8308112
3.4	4.23137928	-5.831095	3.45	3.93982453	-5.6096974	3.45	3.95089441	-5.6180571	3.5	3.66957357	-5.3968393

3.6	3.15185411	-4.9660386	3.65	2.903552178	-4.7469438	3.65	2.91450692	-4.7565781	3.7	2.6761963	-4.5377252
3.7	2.67667398	-4.5381632	3.75	2.449765821	-4.3205183	3.75	2.46064806	-4.3309359	3.8	2.24358039	-4.1135758
3.8	2.24409652	-4.1140926	3.85	2.038391891	-3.8981679	3.85	2.04918813	-3.9094957	3.9	1.85314695	-3.6939102
3.9	1.85370769	-3.694528	3.95	1.668981289	-3.4806718	3.95	1.6796741	-3.4930672	4	1.50440097	-3.2796207
4	1.50501391	-3.2803703	4.05	1.340995398	-3.0690407	4.05	1.35156188	-3.0827008	4.1	1.19674383	-2.8718736
4.1	1.19741846	-2.8727985	4.15	1.053778537	-2.6646115	4.15	1.06418789	-2.6797845	4.2	0.92944002	-2.4722241
4.2	0.93018822	-2.473388	4.25	0.806518823	-2.2691918	4.25	0.81672863	-2.2861912	4.3	0.7015691	-2.0827917
4.3	0.70240579	-2.0842896	4.35	0.598191315	-1.8852849	4.35	0.60814155	-1.9045029	4.4	0.5119555	-1.706532
4.4	0.51289918	-1.7085094	4.45	0.427473706	-1.5164442	4.45	0.43707697	-1.5383539	4.5	0.35906379	-1.3476579
4.5	0.36013645	-1.3503411	4.55	0.292619395	-1.1678292	4.55	0.30174499	-1.1929396	4.6	0.24084249	-1.0122712
4.6	0.24206729	-1.01601	4.65	0.191266785	-0.8470217	4.65	0.1997162	-0.8756886	4.7	0.15449843	-0.7091887
4.7	0.1558903	-0.7144884	4.75	0.12016588	-0.5649485	4.75	0.12764287	-0.5968143	4.8	0.09620887	-0.4505266
4.8	0.09774795	-0.4579401	4.85	0.074850951	-0.3357671	4.85	0.0809596	-0.368602	4.9	0.06088775	-0.2502633
4.9	0.0624656	-0.2597935	4.95	0.049475918	-0.1722955	4.95	0.05385082	-0.2011734	5	0.04234826	-0.1173608
5	0.04373073	-0.1273568	5.05	0.037362888	-0.0748845	5.05	0.0399865	-0.0948988	5.1	0.03424085	-0.0451285
5.1	0.03519653	-0.0528222	5.15	0.032555424	-0.0262936	5.15	0.03388185	-0.0372107	5.2	0.03147546	-0.0122398
5.2	0.03199536	-0.0166174	5.25	0.031164487	-0.004604	5.25	0.03176516	-0.0096835	5.3	0.03102701	0.00156544
5.3	0.03126824	-0.0004848	5.35	0.031243999	0.00472084	5.35	0.03150428	0.00251662	5.4	0.0315199	0.00738463
5.4	0.03162449	0.00650175	5.45	0.031949574	0.00876669	5.45	0.03206282	0.00781718	5.5	0.0324062	0.0099483
5.5	0.03245145	0.00957142	5.55	0.032930021	0.01060108	5.55	0.0329815	0.01017569	5.6	0.03346902	0.01116381
5.6	0.0334896	0.01099512	5.65	0.034039351	0.01150731	5.65	0.03406496	0.01129914	5.7	0.03461951	0.01181044
5.7	0.0346299	0.01172666	5.75	0.035216236	0.01202032	5.75	0.03523092	0.01190297	5.8	0.0358202	0.01221325
5.8	0.03582634	0.01216455	5.85	0.036434572	0.01236474	5.85	0.03644458	0.01228608	5.9	0.03705495	0.01251011
5.9	0.03705928	0.01247637	5.95	0.037683101	0.01263593	5.95	0.03769108	0.01257429	6	0.03831671	0.01276035
6	0.03832024	0.01273335	6.05	0.038956903	0.01287491	6.05	0.03896398	0.01282112	6.1	0.03960235	0.01298984
6.1	0.03960549	0.01296616	6.15	0.040253797	0.01309953	6.15	0.04026047	0.01304968	6.2	0.04091046	0.01320999
6.2	0.0409134	0.01318818	6.25	0.041572808	0.01331767	6.25	0.04157928	0.01327004	6.3	0.0422404	0.0134259
6.3	0.04224322	0.01340531	6.35	0.042913489	0.01353286	6.35	0.04291987	0.01348668	6.4	0.04359189	0.01363986
6.4	0.04359463	0.0136202	6.45	0.044275638	0.01374669	6.45	0.04428196	0.01370161	6.5	0.04496479	0.01385293
6.5	0.04496746	0.01383405	6.55	0.045659159	0.01395988	6.55	0.04566545	0.01391572	6.6	0.04635903	0.01406559
6.6	0.04636164	0.01404742	6.65	0.047064008	0.01417278	6.65	0.04707028	0.01412944	6.7	0.04777458	0.01427808
6.7	0.04777714	0.01426055	6.75	0.048490164	0.01438553	6.75	0.04849641	0.01434297	6.8	0.04921143	0.0144905
6.8	0.04921394	0.01447357	6.85	0.049937615	0.01459823	6.85	0.04994385	0.01455639	6.9	0.05066958	0.01470289
6.9	0.05067203	0.01468653	6.95	0.051406358	0.01481089	6.95	0.05141258	0.01476975	7	0.05214901	0.01491529
7	0.05215142	0.01489946	7.05	0.05289639	0.01502354	7.05	0.05290259	0.01498308	7.1	0.05364973	0.01512769
7.1	0.05365209	0.01511237	7.15	0.054407709	0.0152362	7.15	0.0544139	0.01519638	7.2	0.05517173	0.01534011
7.2	0.05517405	0.01532528	7.25	0.055940315	0.01544885	7.25	0.05594649	0.01540967	7.3	0.05671502	0.01555255
7.3	0.0567173	0.01553818	7.35	0.057494208	0.0156615	7.35	0.05750037	0.01562293	7.4	0.05827959	0.01576501
7.4	0.05828183	0.01575108	7.45	0.059069387	0.01587416	7.45	0.05907554	0.01583618	7.5	0.05986545	0.01597748
7.5	0.05986765	0.01596398	7.55	0.060665853	0.01608683	7.55	0.060672	0.01604942	7.6	0.0614726	0.01618997
7.6	0.06147476	0.01617687	7.65	0.062283605	0.0162995	7.65	0.06228974	0.01626265	7.7	0.06310103	0.01640247
7.7	0.06310316	0.01638976	7.75	0.063922643	0.01651217	7.75	0.06392876	0.01647586	7.8	0.06475074	0.01661499
7.8	0.06475284	0.01660265	7.85	0.065582968	0.01672485	7.85	0.06558908	0.01668906	7.9	0.06642174	0.01682753
7.9	0.0664238	0.01681554	7.95	0.067264579	0.01693753	7.95	0.06727068	0.01690225	8	0.06811403	0.01704008

8.1	0.06982959	0.01724131	8.15	0.070691659	0.01736291	8.15	0.07069774	0.01732861	8.2	0.07156245	0.01746521
8.2	0.07156442	0.01745419	8.25	0.072437129	0.0175756	8.25	0.0724432	0.01754177	8.3	0.0733186	0.01767779
8.3	0.07332053	0.01766707	8.35	0.074203885	0.0177883	8.35	0.07420995	0.01775492	8.4	0.07509602	0.01789039
8.4	0.07509793	0.01787995	8.45	0.075991928	0.018001	8.45	0.07599798	0.01796807	8.5	0.07689474	0.01810299
8.5	0.07689661	0.01809284	8.55	0.077801256	0.0182137	8.55	0.0778073	0.0181812	8.6	0.07871473	0.01831561
8.6	0.07871659	0.01830571	8.65	0.079631871	0.01842641	8.65	0.07963791	0.01839433	8.7	0.08055602	0.01852823
8.7	0.08055784	0.01851859	8.75	0.081483772	0.01863912	8.75	0.0814898	0.01860746	8.8	0.08241859	0.01874087
8.8	0.08242039	0.01873147	8.85	0.08335696	0.01885184	8.85	0.08336298	0.01882057	8.9	0.08430244	0.01895351
8.9	0.08430422	0.01894435	8.95	0.085251434	0.01906455	8.95	0.08525744	0.01903368	9	0.08620758	0.01916616
9	0.08620933	0.01915723	9.05	0.087167194	0.01927728	9.05	0.0871732	0.01924678	9.1	0.08813401	0.01937882
9.1	0.08813574	0.0193701	9.15	0.08910424	0.01949	9.15	0.08911024	0.01945988	9.2	0.09008172	0.01959148
9.2	0.09008342	0.01958298	9.25	0.091062573	0.01970273	9.25	0.09106856	0.01967296	9.3	0.09205072	0.01980415
9.3	0.0920524	0.01979585	9.35	0.093042192	0.01991545	9.35	0.09304817	0.01988605	9.4	0.094041	0.02001683
9.4	0.09404266	0.02000873	9.45	0.095043097	0.02012819	9.45	0.09504907	0.02009913	9.5	0.09605257	0.02022951
9.5	0.09605421	0.0202216	9.55	0.097065288	0.02034092	9.55	0.09707125	0.0203122	9.6	0.09808543	0.0204422
9.6	0.09808704	0.02043447	9.65	0.099108766	0.02055366	9.65	0.09911473	0.02052526	9.7	0.10013957	0.0206549
9.7	0.10014116	0.02064735	9.75	0.10117353	0.0207664	9.75	0.10117948	0.02073833	9.8	0.102215	0.0208676
9.8	0.10221657	0.02086022	9.85	0.10325958	0.02097914	9.85	0.10326553	0.02095138	9.9	0.10431171	0.02108031
9.9	0.10431326	0.02107309	9.95	0.105366916	0.02119188	9.95	0.10537286	0.02116444	10	0.10642971	0.02129302
10	0.10643124	0.02128596	10.05	0.107495539	0.02140463	10.05	0.10750147	0.02137748	10.1	0.10856899	0.02150574

Command window

0.0901 + 0.0000i

ans =

0.0921 + 0.0000i

ans =

0.0940 + 0.0000i

ans =

0.0961 + 0.0000i

ans =

0.0981 + 0.0000i

ans =

0.1001 + 0.0000i

ans =

0.1022 + 0.0000i

ans =

0.1043 + 0.0000i

ans =

0.1064 + 0.0000i