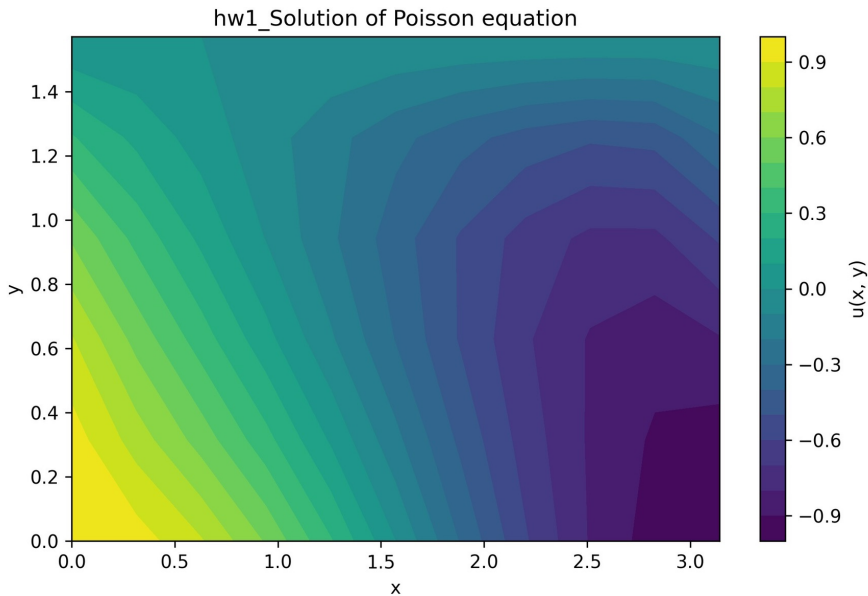
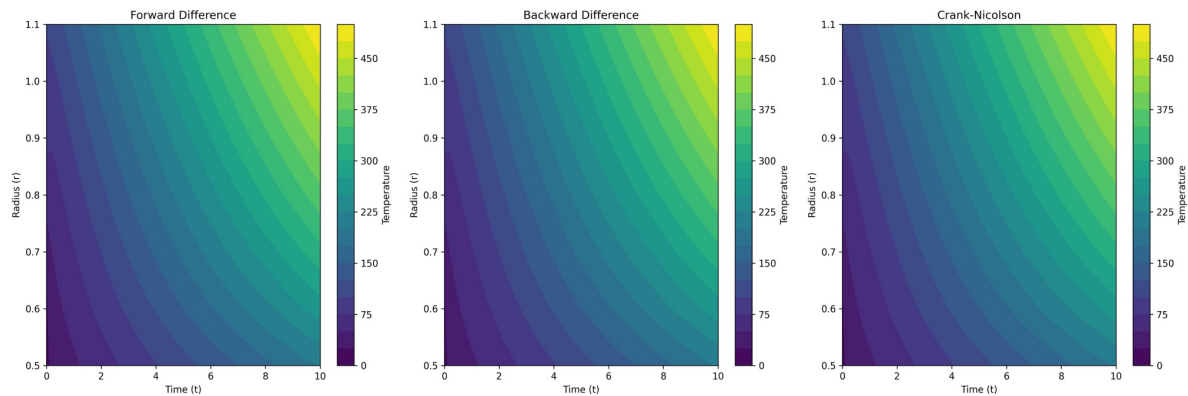


CH12 (有 Png, gif, data)  
HW1 Png



HW2 Png

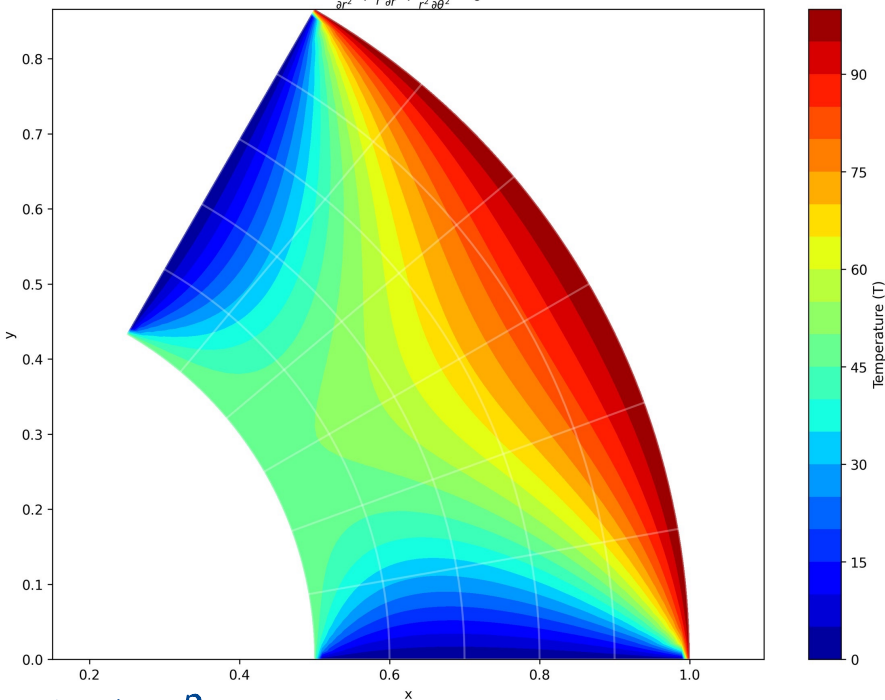


HW3 Png

Iteration 0, Residual: 4.08e+01  
Iteration 1000, Residual: 2.38e-02  
Iteration 2000, Residual: 3.10e-03  
Iteration 3000, Residual: 4.04e-04  
Iteration 4000, Residual: 5.25e-05  
Iteration 5000, Residual: 6.83e-06  
Converged after 5943 iterations with residual 9.98e-07

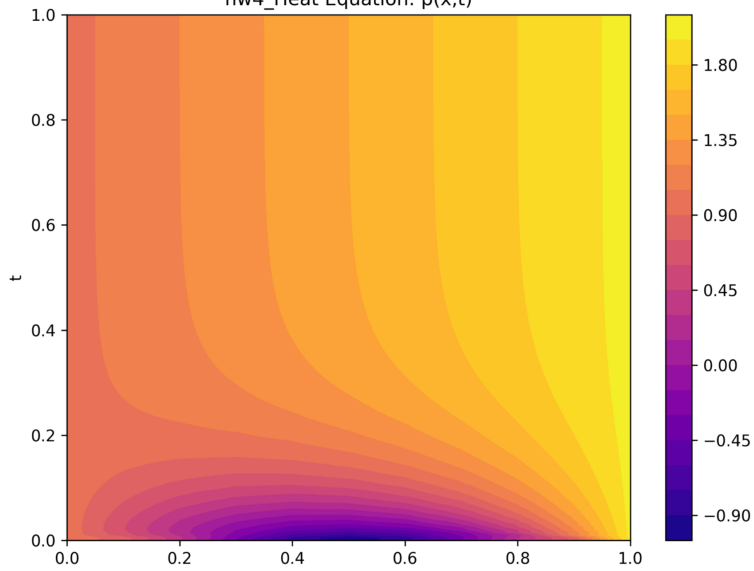
hw3\_Laplace Equation Solution in Polar Coordinates

$$\frac{\partial^2 T}{\partial r^2} + \frac{1}{r} \frac{\partial T}{\partial r} + \frac{1}{r^2} \frac{\partial^2 T}{\partial \theta^2} = 0$$



HW4 Png

hw4\_Heat Equation:  $p(x,t)$



Hw 1 data

	y=0.0	y=0.31	y=0.63	y=0.94	y=1.26	y=1.57
x=0.0	1	0.95	0.81	0.59	0.31	0
x=0.31	0.95	0.75	0.56	0.37	0.17	0
x=0.63	0.81	0.56	0.35	0.18	0.05	0
x=0.94	0.59	0.33	0.13	0	-0.06	0
x=1.26	0.31	0.09	-0.09	-0.18	-0.17	0
x=1.57	0	-0.17	-0.31	-0.35	-0.27	0
x=1.88	-0.31	-0.42	-0.51	-0.51	-0.36	0
x=2.2	-0.59	-0.65	-0.69	-0.64	-0.44	0
x=2.51	-0.81	-0.81	-0.81	-0.72	-0.49	0
x=2.83	-0.95	-0.92	-0.86	-0.73	-0.47	0
x=3.14	-1	-0.95	-0.81	-0.59	-0.31	0

Hw3

r	0.000rad	0.021rad	0.043rad	0.064rad	0.085rad	0.107rad	0.128rad	0.150rad
0.5	50	50	50	50	50	50	50	50
0.510204	0	25.89843	35.77883	40.37026	42.89926	44.48527	45.57725	46.38068
0.520408	0	16.1635	26.42538	32.71957	36.75681	39.50813	41.49227	42.99208
0.530612	0	11.53719	20.561	27.09884	31.80556	35.26715	37.89035	39.93858
0.540816	0	9.014719	16.80207	23.05371	27.94722	31.77935	34.81814	37.2689
0.55102	0	7.487121	14.2992	20.13287	24.98054	28.96932	32.25743	34.98886
0.561224	0	6.48975	12.57015	17.99918	22.70726	26.73211	30.15783	33.07794
0.571429	0	5.803963	11.33945	16.42105	20.965	24.96495	28.45874	31.50264
0.581633	0	5.316096	10.44462	15.24289	19.63002	23.57933	27.10102	30.2255
0.591837	0	4.962018	9.785968	14.35987	18.61073	22.50348	26.03226	29.2101
0.602041	0	4.703087	9.299927	13.7004	17.83995	21.68088	25.20824	28.42355
0.612245	0	4.514772	8.944525	13.21476	17.26836	21.06767	24.59269	27.83741
0.622449	0	4.380851	8.691214	12.8678	16.8596	20.63003	24.15638	27.42772
0.632653	0	4.290245	8.5201	12.63432	16.58669	20.34196	23.876	27.17464
0.642857	0	4.23521	8.417059	12.49603	16.4295	20.18349	23.73312	27.06205
0.653061	0	4.210247	8.371944	12.43955	16.37302	20.13936	23.71327	27.07692
0.663265	0	4.211422	8.377432	12.4551	16.40606	20.19799	23.80525	27.20897
0.673469	0	4.235933	8.428268	12.53556	16.52039	20.35068	24.00049	27.45014
0.683673	0	4.281823	8.520761	12.67591	16.71009	20.59112	24.29265	27.79436
0.693878	0	4.347796	8.652449	12.87275	16.97111	20.9149	24.67722	28.23721
0.704082	0	4.433085	8.821866	13.12402	17.30098	21.31925	25.15127	28.77571
0.714286	0	4.537374	9.028393	13.42885	17.69856	21.80283	25.71327	29.40818
0.72449	0	4.660749	9.272171	13.78735	18.16391	22.36553	26.36293	30.13407
0.734694	0	4.803674	9.554048	14.20063	18.69819	23.00844	27.10108	30.95388
0.744898	0	4.966983	9.875568	14.67073	19.30366	23.73377	27.92964	31.86908
0.755102	0	5.151901	10.239	15.20062	19.98365	24.5448	28.85158	32.88206
0.765306	0	5.360071	10.64739	15.79433	20.74264	25.44598	29.87086	33.99608
0.77551	0	5.593617	11.10464	16.45699	21.5863	26.44289	30.99252	35.21526
0.785714	0	5.855216	11.61566	17.19497	22.52162	27.54237	32.22262	36.54454
0.795918	0	6.148209	12.18655	18.01613	23.55711	28.75259	33.56832	37.98967
0.806122	0	6.476755	12.82482	18.93002	24.70296	30.08319	35.03789	39.55717
0.816327	0	6.846031	13.53973	19.94825	25.9713	31.5454	36.64077	41.25427
0.826531	0	7.262508	14.34272	21.08488	27.37652	33.15219	38.38756	43.08889
0.836735	0	7.734336	15.24796	22.35699	28.93561	34.91847	40.29005	45.06948
0.846939	0	8.271875	16.27319	23.78533	30.66863	36.86118	42.36112	47.20491
0.857143	0	8.888451	17.44067	25.39523	32.59911	38.99944	44.61468	49.50424
0.867347	0	9.601443	18.7787	27.21763	34.75461	41.35455	47.06541	51.97641
0.877551	0	10.43389	20.3235	29.29044	37.16719	43.94998	49.72844	54.62988
0.887755	0	11.41691	22.12201	31.66016	39.87385	46.811	52.61882	57.47205
0.897959	0	12.59342	24.23558	34.38373	42.91674	49.96412	55.75072	60.50869
0.908163	0	14.02406	26.7453	37.53059	46.34289	53.43606	59.13642	63.74311
0.918367	0	15.79682	29.75909	41.1846	50.2033	57.25205	62.78489	67.17531
0.928571	0	18.04313	33.42149	45.4452	54.5506	61.43336	66.70015	70.80096
0.938776	0	20.9656	37.92597	50.4266	59.43483	65.99389	70.87921	74.6105
0.94898	0	24.88693	43.52916	56.25268	64.89638	70.93573	75.31	78.58826

0.959184	0	30.33868	50.56269	63.04371	70.95526	76.24398	79.96937	82.71189
0.969388	0	38.22577	59.43026	70.88915	77.5965	81.88137	84.82168	86.95233
0.979592	0	50.13799	70.55686	79.79911	84.7528	87.78422	89.81858	91.27434
0.989796	0	68.95057	84.20963	89.6303	92.28926	93.86154	94.90045	95.63784
1	100	100	100	100	100	100	100	100

0.171rad	0.192rad	0.214rad	0.235rad	0.256rad	0.278rad	0.299rad	0.321rad	0.342rad
50	50	50	50	50	50	50	50	50
47.00068	47.49601	47.90193	48.2408	48.52744	48.77207	48.98192	49.16227	49.31701
44.16884	45.11913	45.90355	46.56172	47.12048	47.59862	48.0096	48.36332	48.66718
41.58078	42.92668	44.04922	44.9981	45.80805	46.50393	47.10388	47.62144	48.06684
39.27964	40.95512	42.36948	43.57568	44.61211	45.50702	46.2815	46.95156	47.5295
37.28039	39.22205	40.88186	42.31094	43.54781	44.62173	45.55512	46.36534	47.06597
35.57811	37.73046	39.59319	41.2124	42.62426	43.85723	44.9337	45.87142	46.68454
34.15598	36.47347	38.50243	40.28236	41.84568	43.21876	44.42299	45.47577	46.39123
32.99141	35.43839	37.60329	39.51869	41.21253	42.70842	44.02613	45.18214	46.19016
32.06017	34.60975	36.88647	38.9163	40.72262	42.32599	43.74418	44.99247	46.08384
31.33874	33.97134	36.34123	38.46844	40.37206	42.06958	43.57671	44.9073	46.07349
30.80567	33.50753	35.95649	38.16756	40.15592	41.93623	43.52214	44.92611	46.1593
30.4421	33.20391	35.72161	38.00597	40.06886	41.92235	43.57822	45.0476	46.34074
30.23184	33.0477	35.62673	37.97628	40.10541	42.02402	43.74224	45.26998	46.61666
30.1613	33.02781	35.66303	38.0716	40.26032	42.23729	44.01125	45.5911	46.98554
30.21924	33.13483	35.8228	38.28575	40.52869	42.55832	44.38227	46.00864	47.44558
30.39655	33.3609	36.09946	38.61326	40.90605	42.98345	44.85232	46.52018	47.99479
30.68596	33.69964	36.48747	39.04944	41.38841	43.50934	45.41857	47.12331	48.63107
31.08182	34.14595	36.98231	39.59029	41.97229	44.13292	46.07833	47.81561	49.3523
31.57994	34.69592	37.58039	40.23255	42.65469	44.85146	46.82908	48.59478	50.15629
32.17738	35.34668	38.27894	40.97354	43.43307	45.66251	47.66847	49.45857	51.04088
32.87231	36.09631	39.07595	41.8112	44.30531	46.56393	48.59434	50.40479	52.0039
33.66392	36.94371	39.97007	42.74396	45.26965	47.55381	49.60468	51.43134	53.0432
34.5523	37.88857	40.96058	43.77071	46.32467	48.63047	50.69759	52.53619	54.15661
35.53839	38.93124	42.04728	44.89076	47.46923	49.7924	51.87127	53.7173	55.34195
36.62387	40.07267	43.23041	46.10371	48.70239	51.03822	53.12398	54.97269	56.59704
37.81116	41.31438	44.51063	47.40945	50.02338	52.36663	54.45404	56.30034	57.91963
39.10331	42.65834	45.8889	48.80805	51.43155	53.77637	55.8597	57.69817	59.30741
40.50397	44.10693	47.36642	50.29971	52.92625	55.26616	57.3392	59.16406	60.75799
42.01734	45.66284	48.94456	51.88466	54.50682	56.83464	58.89066	60.69576	62.26888
43.6481	47.32901	50.62475	53.56312	56.17252	58.48033	60.51208	62.29092	63.83746
45.40128	49.10851	52.40838	55.33515	57.9224	60.20157	62.20128	63.94699	65.461
47.2822	51.00439	54.29671	57.2006	59.75527	61.99644	63.95585	65.66125	67.13658
49.2963	53.01958	56.29069	59.15899	61.66964	63.86273	65.77314	67.43079	68.86114
51.44895	55.15669	58.39088	61.20939	63.66358	65.79789	67.6502	69.25245	70.63142
53.74524	57.41782	60.59722	63.35033	65.7347	67.79897	69.58378	71.12284	72.444
56.18969	59.80431	62.90896	65.57967	67.88005	69.86258	71.57028	73.0383	74.29527
58.78591	62.31653	65.32439	67.89451	70.09606	71.98484	73.60576	74.99495	76.18146
61.53619	64.95355	67.84073	70.29107	72.3785	74.1614	75.68592	76.98862	78.0986
64.44107	67.71293	70.45396	72.76462	74.72245	76.38741	77.80609	79.01494	80.04259
67.49881	70.59036	73.15865	75.30942	77.12225	78.6575	79.96131	81.06931	82.0092
70.70495	73.57947	75.94789	77.91867	79.57154	80.96584	82.14627	83.14693	83.99408
74.05176	76.67159	78.81319	80.58454	82.06327	83.30616	84.35541	85.24285	85.99281
77.52791	79.85567	81.74454	83.29823	84.58979	85.67182	86.58295	87.35203	88.00092
81.11818	83.11825	84.73043	86.05001	87.14289	88.05588	88.82296	89.46932	90.01392

[illegible]

0.363rad	0.385rad	0.406rad	0.427rad	0.449rad	0.470rad	0.492rad	0.513rad	0.534rad
50	50	50	50	50	50	50	50	50
49.44912	49.56085	49.65395	49.72975	49.78928	49.8333	49.86236	49.8768	49.8768
48.92682	49.14657	49.32975	49.47896	49.59618	49.68287	49.74011	49.76856	49.76856
48.44793	48.7708	49.04017	49.25971	49.43226	49.55993	49.64423	49.68615	49.68615
48.02485	48.44509	48.79606	49.08233	49.30746	49.47411	49.58418	49.63891	49.63891
47.66769	48.17895	48.60646	48.95549	49.23016	49.43357	49.56798	49.63483	49.63483
47.38438	47.98001	48.47872	48.8863	49.20728	49.44513	49.60234	49.68055	49.68055
47.18091	47.85418	48.41866	48.88047	49.24444	49.51431	49.69275	49.78154	49.78154
47.0616	47.80586	48.43071	48.94244	49.34608	49.64552	49.84361	49.94219	49.94219
47.02931	47.83816	48.51811	49.07553	49.51555	49.84217	50.05831	50.1659	50.1659
47.08575	47.95308	48.68309	49.28211	49.75532	50.10674	50.33939	50.45522	50.45522
47.23163	48.15171	48.92698	49.5637	50.067	50.44096	50.6886	50.81192	50.81192
47.46692	48.43441	49.25042	49.92109	50.45155	50.84584	51.10702	51.23711	51.23711
47.79101	48.80093	49.65342	50.35452	50.90931	51.32183	51.59516	51.73131	51.73131
48.20282	49.25053	50.1355	50.86369	51.44012	51.86887	52.15299	52.29453	52.29453
48.70095	49.78213	50.69581	51.4479	52.04341	52.48644	52.78006	52.92635	52.92635
49.28375	50.39432	51.33313	52.10609	52.71823	53.17368	53.47556	53.62597	53.62597
49.9494	51.0855	52.04603	52.83693	53.46334	53.92941	54.23834	54.39226	54.39226
50.69595	51.85387	52.83281	53.63886	54.27722	54.75217	55.06697	55.22382	55.22382
51.52136	52.69749	53.69165	54.51008	55.15815	55.64027	55.9598	56.11899	56.11899
52.42354	53.61435	54.62056	55.44866	56.10424	56.59184	56.91496	57.07592	57.07592
53.40032	54.60229	55.61742	56.45252	57.1134	57.60482	57.93041	58.09259	58.09259
54.44952	55.65911	56.68002	57.51942	58.18343	58.67701	59.00395	59.16678	59.16678
55.5689	56.78252	57.80605	58.64706	59.312	59.80608	60.13326	60.29618	60.29618
56.75618	57.97017	58.99309	59.833	60.49666	60.98958	61.31589	61.47835	61.47835
58.00902	59.21963	60.23868	61.07471	61.73489	62.22498	62.54929	62.71072	62.71072
59.32502	60.52839	61.54023	62.36961	63.02406	63.50962	63.83082	63.99067	63.99067
60.70171	61.89387	62.89511	63.71499	64.36145	64.84081	65.15778	65.31548	65.31548
62.13652	63.31341	64.30057	65.10809	65.74429	66.21575	66.52736	66.68236	66.68236
63.62681	64.78425	65.7538	66.54607	67.16973	67.6316	67.93673	68.08847	68.08847
65.1698	66.30353	67.25192	68.02604	68.63487	69.08546	69.38301	69.53094	69.53094
66.76262	67.86832	68.79195	69.545	70.13674	70.57439	70.86326	71.00682	71.00682
68.40227	69.47556	70.37085	71.09995	71.67235	72.09541	72.37451	72.51319	72.51319
70.08561	71.12212	71.98549	72.68779	73.23864	73.64551	73.9138	74.04707	74.04707
71.80938	72.80477	73.6327	74.30539	74.83256	75.22167	75.47814	75.6055	75.6055
73.57019	74.52017	75.30921	75.9496	76.45101	76.82086	77.06452	77.18549	77.18549
75.36451	76.26491	77.01175	77.61722	78.09088	78.44005	78.66998	78.78411	78.78411
77.18871	78.03552	78.73697	79.30504	79.74909	80.07622	80.29156	80.39841	80.39841
79.03904	79.82843	80.4815	81.00985	81.42254	81.72639	81.92632	82.0255	82.0255
80.91167	81.64007	82.24196	82.72845	83.10816	83.38758	83.57137	83.66253	83.66253
82.80269	83.46681	84.01498	84.45765	84.80293	85.05689	85.22388	85.30668	85.30668
84.70813	85.30501	85.79717	86.19431	86.50387	86.73146	86.88106	86.95523	86.95523
86.62402	87.15106	87.58522	87.93531	88.20806	88.40849	88.5402	88.6055	88.6055
88.54637	89.00134	89.37584	89.67763	89.91263	90.08527	90.19868	90.2549	90.2549
90.47122	90.85232	91.16581	91.41829	91.61482	91.75915	91.85395	91.90093	91.90093



[illegible]

0.556rad	0.577rad	0.598rad	0.620rad	0.641rad	0.663rad	0.684rad	0.705rad	0.727rad
50	50	50	50	50	50	50	50	50
49.86236	49.8333	49.78928	49.72975	49.65395	49.56085	49.44912	49.31701	49.16227
49.74011	49.68287	49.59618	49.47896	49.32975	49.14657	48.92682	48.66718	48.36332
49.64423	49.55993	49.43226	49.25971	49.04017	48.7708	48.44793	48.06684	47.62144
49.58418	49.47411	49.30746	49.08233	48.79606	48.44509	48.02485	47.5295	46.95156
49.56798	49.43357	49.23016	48.95549	48.60646	48.17895	47.66769	47.06597	46.36534
49.60234	49.44513	49.20728	48.8863	48.47872	47.98001	47.38438	46.68454	45.87142
49.69275	49.51431	49.24444	48.88047	48.41866	47.85418	47.18091	46.39123	45.47577
49.84361	49.64552	49.34608	48.94244	48.43071	47.80586	47.0616	46.19016	45.18214
50.05831	49.84217	49.51555	49.07553	48.51811	47.83816	47.02931	46.08384	44.99247
50.33939	50.10674	49.75532	49.28211	48.68309	47.95308	47.08575	46.07349	44.9073
50.6886	50.44096	50.067	49.5637	48.92698	48.15171	47.23163	46.1593	44.92611
51.10702	50.84584	50.45155	49.92109	49.25042	48.43441	47.46692	46.34074	45.0476
51.59516	51.32183	50.90931	50.35452	49.65342	48.80093	47.79101	46.61666	45.26998
52.15299	51.86887	51.44012	50.86369	50.1355	49.25053	48.20282	46.98554	45.5911
52.78006	52.48644	52.04341	51.4479	50.69581	49.78213	48.70095	47.44558	46.00864
53.47556	53.17368	52.71823	52.10609	51.33313	50.39432	49.28375	47.99479	46.52018
54.23834	53.92941	53.46334	52.83693	52.04603	51.0855	49.9494	48.63107	47.12331
55.06697	54.75217	54.27722	53.63886	52.83281	51.85387	50.69595	49.3523	47.81561
55.9598	55.64027	55.15815	54.51008	53.69165	52.69749	51.52136	50.15629	48.59478
56.91496	56.59184	56.10424	55.44866	54.62056	53.61435	52.42354	51.04088	49.45857
57.93041	57.60482	57.1134	56.45252	55.61742	54.60229	53.40032	52.0039	50.40479
59.00395	58.67701	58.18343	57.51942	56.68002	55.65911	54.44952	53.0432	51.43134
60.13326	59.80608	59.312	58.64706	57.80605	56.78252	55.5689	54.15661	52.53619
61.31589	60.98958	60.49666	59.833	58.99309	57.97017	56.75618	55.34195	53.7173
62.54929	62.22498	61.73489	61.07471	60.23868	59.21963	58.00902	56.59704	54.97269
63.83082	63.50962	63.02406	62.36961	61.54023	60.52839	59.32502	57.91963	56.30034
65.15778	64.84081	64.36145	63.71499	62.89511	61.89387	60.70171	59.30741	57.69817
66.52736	66.21575	65.74429	65.10809	64.30057	63.31341	62.13652	60.75799	59.16406
67.93673	67.6316	67.16973	66.54607	65.7538	64.78425	63.62681	62.26888	60.69576
69.38301	69.08546	68.63487	68.02604	67.25192	66.30353	65.1698	63.83746	62.29092
70.86326	70.57439	70.13674	69.545	68.79195	67.86832	66.76262	65.461	63.94699
72.37451	72.09541	71.67235	71.09995	70.37085	69.47556	68.40227	67.13658	65.66125
73.9138	73.64551	73.23864	72.68779	71.98549	71.12212	70.08561	68.86114	67.43079
75.47814	75.22167	74.83256	74.30539	73.6327	72.80477	71.80938	70.63142	69.25245
77.06452	76.82086	76.45101	75.9496	75.30921	74.52017	73.57019	72.444	71.12284
78.66998	78.44005	78.09088	77.61722	77.01175	76.26491	75.36451	74.29527	73.0383
80.29156	80.07622	79.74909	79.30504	78.73697	78.03552	77.18871	76.18146	74.99495
81.92632	81.72639	81.42254	81.00985	80.4815	79.82843	79.03904	78.0986	76.98862
83.57137	83.38758	83.10816	82.72845	82.24196	81.64007	80.91167	80.04259	79.01494
85.22388	85.05689	84.80293	84.45765	84.01498	83.46681	82.80269	82.0092	81.06931
86.88106	86.73146	86.50387	86.19431	85.79717	85.30501	84.70813	83.99408	83.14693
88.5402	88.40849	88.20806	87.93531	87.58522	87.15106	86.62402	85.99281	85.24285
90.19868	90.08527	89.91263	89.67763	89.37584	89.00134	88.54637	88.00092	87.35203
91.85395	91.75915	91.61482	91.41829	91.16581	90.85232	90.47122	90.01392	89.46932

[illegible]

0.748rad	0.769rad	0.791rad	0.812rad	0.833rad	0.855rad	0.876rad	0.898rad	0.919rad
50	50	50	50	50	50	50	50	50
48.98192	48.77207	48.52744	48.2408	47.90193	47.49601	47.00068	46.38068	45.57725
48.0096	47.59862	47.12048	46.56172	45.90355	45.11913	44.16884	42.99208	41.49227
47.10388	46.50393	45.80805	44.9981	44.04922	42.92668	41.58078	39.93858	37.89035
46.2815	45.50702	44.61211	43.57568	42.36948	40.95512	39.27964	37.2689	34.81814
45.55512	44.62173	43.54781	42.31094	40.88186	39.22205	37.28039	34.98886	32.25743
44.9337	43.85723	42.62426	41.2124	39.59319	37.73046	35.57811	33.07794	30.15783
44.42299	43.21876	41.84568	40.28236	38.50243	36.47347	34.15598	31.50264	28.45874
44.02613	42.70842	41.21253	39.51869	37.60329	35.43839	32.99141	30.2255	27.10102
43.74418	42.32599	40.72262	38.9163	36.88647	34.60975	32.06017	29.2101	26.03226
43.57671	42.06958	40.37206	38.46844	36.34123	33.97134	31.33874	28.42355	25.20824
43.52214	41.93623	40.15592	38.16756	35.95649	33.50753	30.80567	27.83741	24.59269
43.57822	41.92235	40.06886	38.00597	35.72161	33.20391	30.4421	27.42772	24.15638
43.74224	42.02402	40.10541	37.97628	35.62673	33.0477	30.23184	27.17464	23.876
44.01125	42.23729	40.26032	38.0716	35.66303	33.02781	30.1613	27.06205	23.73312
44.38227	42.55832	40.52869	38.28575	35.8228	33.13483	30.21924	27.07692	23.71327
44.85232	42.98345	40.90605	38.61326	36.09946	33.3609	30.39655	27.20897	23.80525
45.41857	43.50934	41.38841	39.04944	36.48747	33.69964	30.68596	27.45014	24.00049
46.07833	44.13292	41.97229	39.59029	36.98231	34.14595	31.08182	27.79436	24.29265
46.82908	44.85146	42.65469	40.23255	37.58039	34.69592	31.57994	28.23721	24.67722
47.66847	45.66251	43.43307	40.97354	38.27894	35.34668	32.17738	28.77571	25.15127
48.59434	46.56393	44.30531	41.8112	39.07595	36.09631	32.87231	29.40818	25.71327
49.60468	47.55381	45.26965	42.74396	39.97007	36.94371	33.66392	30.13407	26.36293
50.69759	48.63047	46.32467	43.77071	40.96058	37.88857	34.5523	30.95388	27.10108
51.87127	49.7924	47.46923	44.89076	42.04728	38.93124	35.53839	31.86908	27.92964
53.12398	51.03822	48.70239	46.10371	43.23041	40.07267	36.62387	32.88206	28.85158
54.45404	52.36663	50.02338	47.40945	44.51063	41.31438	37.81116	33.99608	29.87086
55.8597	53.77637	51.43155	48.80805	45.8889	42.65834	39.10331	35.21526	30.99252
57.3392	55.26616	52.92625	50.29971	47.36642	44.10693	40.50397	36.54454	32.22262
58.89066	56.83464	54.50682	51.88466	48.94456	45.66284	42.01734	37.98967	33.56832
60.51208	58.48033	56.17252	53.56312	50.62475	47.32901	43.6481	39.55717	35.03789
62.20128	60.20157	57.9224	55.33515	52.40838	49.10851	45.40128	41.25427	36.64077
63.95585	61.99644	59.75527	57.2006	54.29671	51.00439	47.2822	43.08889	38.38756
65.77314	63.86273	61.66964	59.15899	56.29069	53.01958	49.2963	45.06948	40.29005
67.6502	65.79789	63.66358	61.20939	58.39088	55.15669	51.44895	47.20491	42.36112
69.58378	67.79897	65.7347	63.35033	60.59722	57.41782	53.74524	49.50424	44.61468
71.57028	69.86258	67.88005	65.57967	62.90896	59.80431	56.18969	51.97641	47.06541
73.60576	71.98484	70.09606	67.89451	65.32439	62.31653	58.78591	54.62988	49.72844
75.68592	74.1614	72.3785	70.29107	67.84073	64.95355	61.53619	57.47205	52.61882
77.80609	76.38741	74.72245	72.76462	70.45396	67.71293	64.44107	60.50869	55.75072
79.96131	78.6575	77.12225	75.30942	73.15865	70.59036	67.49881	63.74311	59.13642
82.14627	80.96584	79.57154	77.91867	75.94789	73.57947	70.70495	67.17531	62.78489
84.35541	83.30616	82.06327	80.58454	78.81319	76.67159	74.05176	70.80096	66.70015
86.58295	85.67182	84.58979	83.29823	81.74454	79.85567	77.52791	74.6105	70.87921
88.82296	88.05588	87.14289	86.05001	84.73043	83.11825	81.11818	78.58826	75.31

[illegible]

0.940rad	0.962rad	0.983rad	1.004rad	1.026rad	1.047rad
50	50	50	50	50	50
44.48527	42.89926	40.37026	35.77883	25.89843	0
39.50813	36.75681	32.71957	26.42538	16.1635	0
35.26715	31.80556	27.09884	20.561	11.53719	0
31.77935	27.94722	23.05371	16.80207	9.014719	0
28.96932	24.98054	20.13287	14.2992	7.487121	0
26.73211	22.70726	17.99918	12.57015	6.48975	0
24.96495	20.965	16.42105	11.33945	5.803963	0
23.57933	19.63002	15.24289	10.44462	5.316096	0
22.50348	18.61073	14.35987	9.785968	4.962018	0
21.68088	17.83995	13.7004	9.299927	4.703087	0
21.06767	17.26836	13.21476	8.944525	4.514772	0
20.63003	16.8596	12.8678	8.691214	4.380851	0
20.34196	16.58669	12.63432	8.5201	4.290245	0
20.18349	16.4295	12.49603	8.417059	4.23521	0
20.13936	16.37302	12.43955	8.371944	4.210247	0
20.19799	16.40606	12.4551	8.377432	4.211422	0
20.35068	16.52039	12.53556	8.428268	4.235933	0
20.59112	16.71009	12.67591	8.520761	4.281823	0
20.9149	16.97111	12.87275	8.652449	4.347796	0
21.31925	17.30098	13.12402	8.821866	4.433085	0
21.80283	17.69856	13.42885	9.028393	4.537374	0
22.36553	18.16391	13.78735	9.272171	4.660749	0
23.00844	18.69819	14.20063	9.554048	4.803674	0
23.73377	19.30366	14.67073	9.875568	4.966983	0
24.5448	19.98365	15.20062	10.239	5.151901	0
25.44598	20.74264	15.79433	10.64739	5.360071	0
26.44289	21.5863	16.45699	11.10464	5.593617	0
27.54237	22.52162	17.19497	11.61566	5.855216	0
28.75259	23.55711	18.01613	12.18655	6.148209	0
30.08319	24.70296	18.93002	12.82482	6.476755	0
31.5454	25.9713	19.94825	13.53973	6.846031	0
33.15219	27.37652	21.08488	14.34272	7.262508	0
34.91847	28.93561	22.35699	15.24796	7.734336	0
36.86118	30.66863	23.78533	16.27319	8.271875	0
38.99944	32.59911	25.39523	17.44067	8.888451	0
41.35455	34.75461	27.21763	18.7787	9.601443	0
43.94998	37.16719	29.29044	20.3235	10.43389	0
46.811	39.87385	31.66016	22.12201	11.41691	0
49.96412	42.91674	34.38373	24.23558	12.59342	0
53.43606	46.34289	37.53059	26.7453	14.02406	0
57.25205	50.2033	41.1846	29.75909	15.79682	0
61.43336	54.5506	45.4452	33.42149	18.04313	0
65.99389	59.43483	50.4266	37.92597	20.9656	0
70.93573	64.89638	56.25268	43.52916	24.88693	0

76.24398	70.95526	63.04371	50.56269	30.33868	0
81.88137	77.5965	70.88915	59.43026	38.22577	0
87.78422	84.7528	79.79911	70.55686	50.13799	0
93.86154	92.28926	89.6303	84.20963	68.95057	0
100	100	100	100	100	100

HW4

time	x=0.00	x=0.10	x=0.20	x=0.30	x=0.40	x=0.50	x=0.60	x=0.70
0	1	0.809017	0.309017	-0.30902	-0.80902	-1	-0.80902	-0.30902
0.005	1	0.827483	0.338895	-0.27914	-0.79055	-1	-0.82748	-0.3389
0.01	1	0.669448	0.274172	-0.22583	-0.63957	-0.80902	-0.66945	-0.27417
0.015	1	0.637086	0.22181	-0.1827	-0.51742	-0.65451	-0.54159	-0.22181
0.02	1	0.610905	0.227194	-0.14781	-0.4186	-0.52951	-0.43816	-0.05445
0.025	1	0.613597	0.231549	-0.0957	-0.33866	-0.42838	-0.29198	0.003696
0.03	1	0.615775	0.258946	-0.05355	-0.26204	-0.31532	-0.21234	0.144486
0.035	1	0.629473	0.28111	-0.00155	-0.18444	-0.23719	-0.08542	0.200447
0.04	1	0.640555	0.313962	0.048337	-0.11937	-0.13493	-0.01837	0.316032
0.045	1	0.656981	0.344446	0.097296	-0.04329	-0.06887	0.090553	0.36758
0.05	1	0.672223	0.377138	0.150576	0.014212	0.023629	0.149354	0.46397
0.055	1	0.688569	0.4114	0.195675	0.087103	0.081783	0.2438	0.510763
0.06	1	0.7057	0.442122	0.249251	0.138729	0.165451	0.296273	0.592566
0.065	1	0.721061	0.477475	0.290426	0.207351	0.217501	0.379008	0.634849
0.07	1	0.738738	0.505743	0.342413	0.253963	0.29318	0.426175	0.705312
0.075	1	0.752872	0.540576	0.379853	0.317797	0.340069	0.499246	0.743478
0.08	1	0.770288	0.566363	0.429186	0.359961	0.408521	0.541774	0.804903
0.085	1	0.783181	0.599737	0.463162	0.418854	0.450867	0.606712	0.839354
0.09	1	0.799868	0.623172	0.509295	0.457015	0.512783	0.645111	0.893402
0.095	1	0.811586	0.654582	0.540093	0.511039	0.551063	0.703092	0.924511
0.1	1	0.827291	0.675839	0.58281	0.545578	0.607066	0.737787	0.972408
0.105	1	0.83792	0.705051	0.610709	0.594938	0.641682	0.789737	1.00051
0.11	1	0.852525	0.724314	0.649994	0.626195	0.692337	0.821096	1.043186
0.115	1	0.862157	0.75126	0.675255	0.671166	0.723646	0.867762	1.06858
0.12	1	0.87563	0.768706	0.711213	0.69945	0.769464	0.896113	1.106757
0.125	1	0.884353	0.793421	0.734078	0.740338	0.797781	0.93811	1.129709
0.13	1	0.896711	0.809216	0.76688	0.76593	0.839224	0.963745	1.163963
0.135	1	0.904608	0.831795	0.787573	0.803052	0.864838	1.001594	1.184713
0.14	1	0.915898	0.84609	0.817424	0.826205	0.902323	1.024775	1.215515
0.145	1	0.923045	0.866661	0.836148	0.859873	0.92549	1.058919	1.234276
0.15	1	0.93333	0.879596	0.863267	0.880819	0.959396	1.079883	1.262018
0.155	1	0.939798	0.898299	0.880208	0.911332	0.980351	1.110707	1.278983
0.16	1	0.949149	0.910003	0.904815	0.930279	1.011019	1.129667	1.303997
0.165	1	0.955001	0.926982	0.920141	0.957917	1.029973	1.157508	1.319339
0.17	1	0.963491	0.937571	0.94245	0.975057	1.057713	1.174656	1.341914
0.175	1	0.968786	0.95297	0.956314	1.000081	1.074857	1.199814	1.355789
0.18	1	0.976485	0.96255	0.976526	1.015585	1.099947	1.215323	1.376175
0.185	1	0.981275	0.976505	0.989068	1.038237	1.115454	1.238061	1.388724
0.19	1	0.988253	0.985171	1.007371	1.052261	1.138149	1.252089	1.407142
0.195	1	0.992586	0.997812	1.018716	1.07276	1.152175	1.272645	1.418491
0.2	1	0.998906	1.005651	1.035286	1.085446	1.172703	1.285333	1.435136
0.205	1	1.002825	1.017096	1.045548	1.103994	1.185389	1.303919	1.445401
0.21	1	1.008548	1.024187	1.060545	1.115469	1.203957	1.315395	1.460447
0.215	1	1.012093	1.034547	1.069828	1.132251	1.215432	1.332202	1.469732
0.22	1	1.017273	1.040961	1.083399	1.14263	1.232226	1.342582	1.483334



0.225	1	1.02048	1.050336	1.091795	1.157813	1.242606	1.35778	1.491732
0.23	1	1.025168	1.056138	1.104074	1.167201	1.257797	1.367169	1.504032
0.235	1	1.028069	1.064621	1.111669	1.180935	1.267185	1.380914	1.511628
0.24	1	1.032311	1.069869	1.122778	1.189427	1.280925	1.389406	1.522751
0.245	1	1.034935	1.077544	1.129648	1.201852	1.289417	1.401838	1.529621
0.25	1	1.038772	1.082291	1.139698	1.209532	1.301845	1.409519	1.53968
0.255	1	1.041146	1.089235	1.145912	1.220771	1.309526	1.420762	1.545894
0.26	1	1.044618	1.093529	1.155003	1.227719	1.320767	1.42771	1.554991
0.265	1	1.046764	1.09981	1.160624	1.237885	1.327714	1.437879	1.560612
0.27	1	1.049905	1.103694	1.168848	1.244169	1.337882	1.444163	1.56884
0.275	1	1.051847	1.109376	1.173932	1.253365	1.344166	1.453361	1.573924
0.28	1	1.054688	1.112889	1.181371	1.259049	1.353363	1.459045	1.581366
0.285	1	1.056445	1.118029	1.185969	1.267367	1.359047	1.467364	1.585964
0.29	1	1.059015	1.121207	1.192698	1.272508	1.367366	1.472506	1.592695
0.295	1	1.060603	1.125856	1.196857	1.280032	1.372507	1.48003	1.596854
0.3	1	1.062928	1.12873	1.202944	1.284682	1.380031	1.48468	1.602942
0.305	1	1.064365	1.132936	1.206706	1.291488	1.384681	1.491487	1.606704
0.31	1	1.066468	1.135536	1.212212	1.295694	1.391487	1.495693	1.61221
0.315	1	1.067768	1.13934	1.215615	1.301849	1.395693	1.501849	1.615613
0.32	1	1.06967	1.141691	1.220595	1.305654	1.401849	1.505653	1.620594
0.325	1	1.070846	1.145132	1.223673	1.311222	1.405654	1.511221	1.623672
0.33	1	1.072566	1.147259	1.228177	1.314663	1.411222	1.514663	1.628177
0.335	1	1.07363	1.150372	1.230961	1.319699	1.414663	1.519699	1.630961
0.34	1	1.075186	1.152295	1.235036	1.322812	1.419699	1.522812	1.635035
0.345	1	1.076148	1.155111	1.237554	1.327367	1.422812	1.527367	1.637553
0.35	1	1.077555	1.156851	1.241239	1.330183	1.427367	1.530183	1.641239
0.355	1	1.078425	1.159397	1.243517	1.334303	1.430183	1.534303	1.643516
0.36	1	1.079699	1.160971	1.24685	1.33685	1.434303	1.53685	1.64685
0.365	1	1.080486	1.163274	1.24891	1.340577	1.43685	1.540577	1.64891
0.37	1	1.081637	1.164698	1.251926	1.34288	1.440577	1.54288	1.651925
0.375	1	1.082349	1.166781	1.253789	1.346251	1.44288	1.546251	1.653789
0.38	1	1.083391	1.168069	1.256516	1.348334	1.446251	1.548334	1.656516
0.385	1	1.084034	1.169953	1.258202	1.351384	1.448334	1.551384	1.658202
0.39	1	1.084977	1.171118	1.260669	1.353268	1.451384	1.553268	1.660668
0.395	1	1.085559	1.172823	1.262193	1.356026	1.453268	1.556026	1.662193
0.4	1	1.086411	1.173876	1.264424	1.357731	1.456026	1.557731	1.664424
0.405	1	1.086938	1.175418	1.265803	1.360225	1.457731	1.560225	1.665803
0.41	1	1.087709	1.176371	1.267822	1.361767	1.460225	1.561767	1.667821
0.415	1	1.088185	1.177765	1.269069	1.364023	1.461767	1.564023	1.669069
0.42	1	1.088883	1.178627	1.270894	1.365418	1.464023	1.565418	1.670894
0.425	1	1.089314	1.179888	1.272022	1.367459	1.465418	1.567459	1.672022
0.43	1	1.089944	1.180668	1.273674	1.36872	1.467459	1.56872	1.673674
0.435	1	1.090334	1.181809	1.274694	1.370566	1.46872	1.570566	1.674694
0.44	1	1.090904	1.182514	1.276188	1.371707	1.470566	1.571707	1.676188
0.445	1	1.091257	1.183546	1.277111	1.373377	1.471707	1.573377	1.677111
0.45	1	1.091773	1.184184	1.278461	1.374409	1.473377	1.574409	1.678461

0.455	1	1.092092	1.185117	1.279296	1.375919	1.474409	1.575919	1.679296
0.46	1	1.092559	1.185694	1.280518	1.376853	1.475919	1.576853	1.680518
0.465	1	1.092847	1.186538	1.281273	1.378219	1.476853	1.578219	1.681273
0.47	1	1.093269	1.18706	1.282379	1.379063	1.478219	1.579063	1.682379
0.475	1	1.09353	1.187824	1.283062	1.380299	1.479063	1.580299	1.683062
0.48	1	1.093912	1.188296	1.284061	1.381062	1.480299	1.581062	1.684061
0.485	1	1.094148	1.188987	1.284679	1.38218	1.481062	1.58218	1.684679
0.49	1	1.094493	1.189413	1.285583	1.382871	1.48218	1.582871	1.685583
0.495	1	1.094707	1.190038	1.286142	1.383882	1.482871	1.583882	1.686142
0.5	1	1.095019	1.190424	1.28696	1.384506	1.483882	1.584506	1.68696
0.505	1	1.095212	1.19099	1.287465	1.385421	1.484506	1.585421	1.687465
0.51	1	1.095495	1.191339	1.288205	1.385986	1.485421	1.585986	1.688205
0.515	1	1.095669	1.19185	1.288662	1.386813	1.485986	1.586813	1.688662
0.52	1	1.095925	1.192166	1.289331	1.387324	1.486813	1.587324	1.689331
0.525	1	1.096083	1.192628	1.289745	1.388072	1.487324	1.588072	1.689745
0.53	1	1.096314	1.192914	1.29035	1.388535	1.488072	1.588535	1.69035
0.535	1	1.096457	1.193332	1.290724	1.389211	1.488535	1.589211	1.690724
0.54	1	1.096666	1.193591	1.291272	1.389629	1.489211	1.589629	1.691272
0.545	1	1.096795	1.193969	1.29161	1.390241	1.489629	1.590241	1.69161
0.55	1	1.096984	1.194203	1.292105	1.39062	1.490241	1.59062	1.692105
0.555	1	1.097101	1.194545	1.292411	1.391173	1.49062	1.591173	1.692411
0.56	1	1.097272	1.194756	1.292859	1.391515	1.491173	1.591515	1.692859
0.565	1	1.097378	1.195066	1.293136	1.392016	1.491515	1.592016	1.693136
0.57	1	1.097533	1.195257	1.293541	1.392326	1.492016	1.592326	1.693541
0.575	1	1.097628	1.195537	1.293791	1.392779	1.492326	1.592779	1.693791
0.58	1	1.097768	1.19571	1.294158	1.393058	1.492779	1.593058	1.694158
0.585	1	1.097855	1.195963	1.294384	1.393468	1.493058	1.593468	1.694384
0.59	1	1.097982	1.19612	1.294716	1.393721	1.493468	1.593721	1.694716
0.595	1	1.09806	1.196349	1.29492	1.394092	1.493721	1.594092	1.69492
0.6	1	1.098174	1.19649	1.29522	1.394321	1.494092	1.594321	1.69522
0.605	1	1.098245	1.196697	1.295406	1.394656	1.494321	1.594656	1.695406
0.61	1	1.098349	1.196825	1.295677	1.394863	1.494656	1.594863	1.695677
0.615	1	1.098413	1.197013	1.295844	1.395166	1.494863	1.595166	1.695844
0.62	1	1.098506	1.197128	1.29609	1.395354	1.495166	1.595354	1.69609
0.625	1	1.098564	1.197298	1.296241	1.395628	1.495354	1.595628	1.696241
0.63	1	1.098649	1.197403	1.296463	1.395797	1.495628	1.595797	1.696463
0.635	1	1.098701	1.197556	1.2966	1.396045	1.495797	1.596045	1.6966
0.64	1	1.098778	1.197651	1.296801	1.396199	1.496045	1.596199	1.696801
0.645	1	1.098825	1.197789	1.296925	1.396423	1.496199	1.596423	1.696925
0.65	1	1.098895	1.197875	1.297106	1.396562	1.496423	1.596562	1.697106
0.655	1	1.098938	1.198	1.297218	1.396765	1.496562	1.596765	1.697218
0.66	1	1.099	1.198078	1.297383	1.39689	1.496765	1.59689	1.697383
0.665	1	1.099039	1.198191	1.297484	1.397074	1.49689	1.597074	1.697484
0.67	1	1.099096	1.198261	1.297632	1.397187	1.497074	1.597187	1.697632
0.675	1	1.099131	1.198364	1.297724	1.397353	1.497187	1.597353	1.697724
0.68	1	1.099182	1.198427	1.297859	1.397456	1.497353	1.597456	1.697859

0.685	1	1.099214	1.19852	1.297942	1.397606	1.497456	1.597606	1.697942
0.69	1	1.09926	1.198578	1.298063	1.397699	1.497606	1.597699	1.698063
0.695	1	1.099289	1.198662	1.298138	1.397834	1.497699	1.597834	1.698138
0.7	1	1.099331	1.198713	1.298248	1.397918	1.497834	1.597918	1.698248
0.705	1	1.099357	1.198789	1.298316	1.398041	1.497918	1.598041	1.698316
0.71	1	1.099395	1.198836	1.298415	1.398117	1.498041	1.598117	1.698415
0.715	1	1.099418	1.198905	1.298477	1.398228	1.498117	1.598228	1.698477
0.72	1	1.099453	1.198947	1.298567	1.398297	1.498228	1.598297	1.698567
0.725	1	1.099474	1.19901	1.298622	1.398397	1.498297	1.598397	1.698622
0.73	1	1.099505	1.199048	1.298704	1.39846	1.498397	1.59846	1.698704
0.735	1	1.099524	1.199104	1.298754	1.39855	1.49846	1.59855	1.698754
0.74	1	1.099552	1.199139	1.298827	1.398607	1.49855	1.598607	1.698827
0.745	1	1.099569	1.19919	1.298873	1.398689	1.498607	1.598689	1.698873
0.75	1	1.099595	1.199221	1.298939	1.39874	1.498689	1.59874	1.698939
0.755	1	1.099611	1.199267	1.29898	1.398814	1.49874	1.598814	1.69898
0.76	1	1.099634	1.199295	1.299041	1.39886	1.498814	1.59886	1.699041
0.765	1	1.099648	1.199337	1.299078	1.398927	1.49886	1.598927	1.699078
0.77	1	1.099669	1.199363	1.299132	1.398969	1.498927	1.598969	1.699132
0.775	1	1.099681	1.1994	1.299166	1.39903	1.498969	1.59903	1.699166
0.78	1	1.0997	1.199424	1.299215	1.399067	1.49903	1.599067	1.699215
0.785	1	1.099712	1.199458	1.299245	1.399122	1.499067	1.599122	1.699245
0.79	1	1.099729	1.199479	1.29929	1.399156	1.499122	1.599156	1.69929
0.795	1	1.099739	1.199509	1.299318	1.399206	1.499156	1.599206	1.699318
0.8	1	1.099755	1.199528	1.299358	1.399237	1.499206	1.599237	1.699358
0.805	1	1.099764	1.199556	1.299383	1.399282	1.499237	1.599282	1.699383
0.81	1	1.099778	1.199573	1.299419	1.39931	1.499282	1.59931	1.699419
0.815	1	1.099787	1.199599	1.299442	1.399351	1.49931	1.599351	1.699442
0.82	1	1.099799	1.199614	1.299475	1.399376	1.499351	1.599376	1.699475
0.825	1	1.099807	1.199637	1.299495	1.399413	1.499376	1.599413	1.699495
0.83	1	1.099818	1.199651	1.299525	1.399435	1.499413	1.599435	1.699525
0.835	1	1.099826	1.199672	1.299543	1.399469	1.499435	1.599469	1.699543
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0.85	1	1.099851	1.199714	1.299611	1.399538	1.499519	1.599538	1.699611
0.855	1	1.099857	1.199731	1.299626	1.399565	1.499538	1.599565	1.699626
0.86	1	1.099866	1.199742	1.299648	1.399582	1.499565	1.599582	1.699648
0.865	1	1.099871	1.199757	1.299662	1.399607	1.499582	1.599607	1.699662
0.87	1	1.099879	1.199766	1.299682	1.399622	1.499607	1.599622	1.699682
0.875	1	1.099883	1.19978	1.299694	1.399644	1.499622	1.599644	1.699694
0.88	1	1.09989	1.199789	1.299712	1.399658	1.499644	1.599658	1.699712
0.885	1	1.099894	1.199801	1.299723	1.399678	1.499658	1.599678	1.699723
0.89	1	1.099901	1.199809	1.29974	1.399691	1.499678	1.599691	1.69974
0.895	1	1.099904	1.19982	1.29975	1.399709	1.499691	1.599709	1.69975
0.9	1	1.09991	1.199827	1.299765	1.39972	1.499709	1.59972	1.699765
0.905	1	1.099914	1.199837	1.299774	1.399737	1.49972	1.599737	1.699774
0.91	1	1.099919	1.199844	1.299787	1.399747	1.499737	1.599747	1.699787

0.915	1	1.099922	1.199853	1.299795	1.399762	1.499747	1.599762	1.699795
0.92	1	1.099926	1.199859	1.299807	1.399771	1.499762	1.599771	1.699807
0.925	1	1.099929	1.199867	1.299815	1.399785	1.499771	1.599785	1.699815
0.93	1	1.099933	1.199872	1.299826	1.399793	1.499785	1.599793	1.699826
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0.94	1	1.09994	1.199884	1.299842	1.399813	1.499805	1.599813	1.699842
0.945	1	1.099942	1.199891	1.299849	1.399824	1.499813	1.599824	1.699849
0.95	1	1.099946	1.199895	1.299857	1.399831	1.499824	1.599831	1.699857
0.955	1	1.099948	1.199902	1.299863	1.399841	1.499831	1.599841	1.699863
0.96	1	1.099951	1.199905	1.299871	1.399847	1.499841	1.599847	1.699871
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0.97	1	1.099955	1.199914	1.299883	1.399861	1.499856	1.599861	1.699883
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0.98	1	1.09996	1.199923	1.299895	1.399875	1.49987	1.599875	1.699895
0.985	1	1.099961	1.199927	1.299899	1.399882	1.499875	1.599882	1.699899
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0.580951	1.222776	2
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0.717481	1.306618	2
0.753532	1.35874	2
0.837386	1.376766	2
0.872173	1.418693	2
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0.973425	1.470666	2
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1.060781	1.515808	2
1.11056	1.53039	2
1.136934	1.55528	2
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1.20391	1.590046	2
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1.79852	1.899214	2
1.798578	1.89926	2
1.798662	1.899289	2
1.798713	1.899331	2
1.798789	1.899357	2
1.798836	1.899395	2
1.798905	1.899418	2
1.798947	1.899453	2
1.79901	1.899474	2
1.799048	1.899505	2
1.799104	1.899524	2
1.799139	1.899552	2
1.79919	1.899569	2
1.799221	1.899595	2
1.799267	1.899611	2
1.799295	1.899634	2
1.799337	1.899648	2
1.799363	1.899669	2
1.7994	1.899681	2
1.799424	1.8997	2
1.799458	1.899712	2
1.799479	1.899729	2
1.799509	1.899739	2
1.799528	1.899755	2
1.799556	1.899764	2
1.799573	1.899778	2
1.799599	1.899787	2
1.799614	1.899799	2
1.799637	1.899807	2
1.799651	1.899818	2
1.799672	1.899826	2
1.799684	1.899836	2
1.799703	1.899842	2
1.799714	1.899851	2
1.799731	1.899857	2
1.799742	1.899866	2
1.799757	1.899871	2
1.799766	1.899879	2
1.79978	1.899883	2
1.799789	1.89989	2
1.799801	1.899894	2
1.799809	1.899901	2
1.79982	1.899904	2
1.799827	1.89991	2
1.799837	1.899914	2
1.799844	1.899919	2



1.799853	1.899922	2
1.799859	1.899926	2
1.799867	1.899929	2
1.799872	1.899933	2
1.79988	1.899936	2
1.799884	1.89994	2
1.799891	1.899942	2
1.799895	1.899946	2
1.799902	1.899948	2
1.799905	1.899951	2
1.799911	1.899953	2
1.799914	1.899955	2
1.799919	1.899957	2
1.799923	1.89996	2
1.799927	1.899961	2
1.79993	1.899964	2
1.799934	1.899965	2
1.799937	1.899967	2