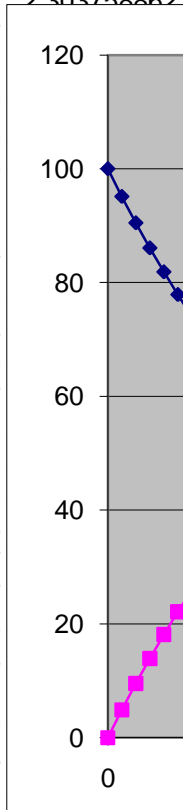


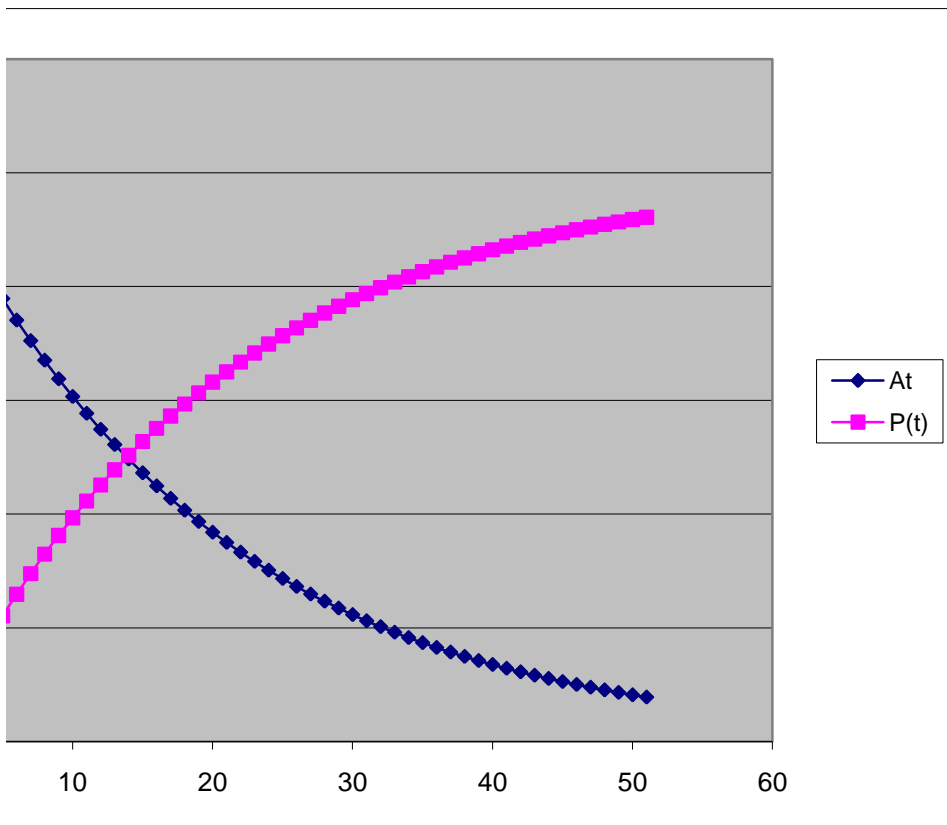
$t_0 >$ A -----> P $k_1 =$ 0.05
 step $t =$ 100 0 mol m⁻³
 1 sec

t	At	P(t)	dA/dt	=dP/dt	v=dA/(-1*dt)	v=dP/(1*dt)
0	100	0	100			
1	95.12294	4.877058	100	-4.87706	4.877058	4.87705755
2	90.48374	9.516258	100	-4.6392	4.639201	4.639200646
3	86.0708	13.9292	100	-4.41294	4.412944	4.412944161
4	81.87308	18.12692	100	-4.19772	4.197722	4.197722335
5	77.88008	22.11992	100	-3.993	3.992997	3.992997001
6	74.08182	25.91818	100	-3.79826	3.798256	3.798256239
7	70.46881	29.53119	100	-3.61301	3.613013	3.613013096
8	67.032	32.968	100	-3.4368	3.436804	3.436804368
9	63.76282	36.23718	100	-3.26919	3.269189	3.269189441
10	60.65307	39.34693	100	-3.10975	3.109749	3.109749191
11	57.69498	42.30502	100	-2.95808	2.958085	2.958084933
12	54.88116	45.11884	100	-2.81382	2.813817	2.813817429
13	52.20458	47.79542	100	-2.67659	2.676586	2.676585933
14	49.65853	50.34147	100	-2.54605	2.546047	2.546047297
15	47.23666	52.76334	100	-2.42188	2.421875	2.421875105
16	44.9329	55.0671	100	-2.30376	2.303759	2.303758862
17	42.74149	57.25851	100	-2.1914	2.191403	2.191403217
18	40.65697	59.34303	100	-2.08453	2.084527	2.084527221
19	38.6741	61.3259	100	-1.98286	1.982864	1.982863629
20	36.78794	63.21206	100	-1.88616	1.886158	1.886158228
21	34.99377	65.00623	100	-1.79417	1.794169	1.794169206
22	33.28711	66.71289	100	-1.70667	1.706667	1.706666541
23	31.66368	68.33632	100	-1.62343	1.623431	1.623431432
24	30.11942	69.88058	100	-1.54426	1.544256	1.544255747
25	28.65048	71.34952	100	-1.46894	1.468942	1.468941505
26	27.25318	72.74682	100	-1.3973	1.3973	1.397300383
27	25.92403	74.07597	100	-1.32915	1.329153	1.329153239
28	24.6597	75.3403	100	-1.26433	1.26433	1.26432967
29	23.45703	76.54297	100	-1.20267	1.202668	1.202667585
30	22.31302	77.68698	100	-1.14401	1.144013	1.144012795
31	21.2248	78.7752	100	-1.08822	1.088219	1.088218632
32	20.18965	79.81035	100	-1.03515	1.035146	1.035145583
33	19.20499	80.79501	100	-0.98466	0.984661	0.984660937
34	18.26835	81.73165	100	-0.93664	0.936638	0.936638457
35	17.37739	82.62261	100	-0.89096	0.890958	0.89095806
36	16.52989	83.47011	100	-0.84751	0.847506	0.847505523
37	15.72372	84.27628	100	-0.80617	0.806172	0.806172191
38	14.95686	85.04314	100	-0.76685	0.766855	0.766854709
39	14.22741	85.77259	100	-0.72945	0.729455	0.729454764
40	13.53353	86.46647	100	-0.69388	0.693879	0.693878835
41	12.87349	87.12651	100	-0.66004	0.660038	0.660037965
42	12.24564	87.75436	100	-0.62785	0.627848	0.627847533
43	11.64842	88.35158	100	-0.59723	0.597227	0.597227048
44	11.08032	88.91968	100	-0.5681	0.5681	0.568099941
45	10.53992	89.46008	100	-0.54039	0.540393	0.54039338
46	10.02588	89.97412	100	-0.51404	0.514038	0.514038084
47	9.536916	90.46308	100	-0.48897	0.488968	0.488968151
48	9.071795	90.9282	100	-0.46512	0.465121	0.465120893
49	8.629359	91.37064	100	-0.44244	0.442437	0.442436679



50	8.2085	91.7915	100	-0.42086	0.420859	0.420858788	0.420858788
51	7.808167	92.19183	100	-0.40033	0.400333	0.400333262	0.400333262

sec-1



t0> A -----> P k1 = 0.05
 step t= 100 0 mol m-3 dt= 1
 1 sec

t	Anal At	P(t)		dA/dt	=dP/dt	v=dA/(-1*dt)	v=dB/(1*dt)
0	100	0	100				
1	95.12294	4.877058	100	-4.87706	4.877058	4.87705755	4.87705755
2	90.48374	9.516258	100	-4.6392	4.639201	4.639200646	4.639200646
3	86.0708	13.9292	100	-4.41294	4.412944	4.412944161	4.412944161
4	81.87308	18.12692	100	-4.19772	4.197722	4.197722335	4.197722335
5	77.88008	22.11992	100	-3.993	3.992997	3.992997001	3.992997001
6	74.08182	25.91818	100	-3.79826	3.798256	3.798256239	3.798256239
7	70.46881	29.53119	100	-3.61301	3.613013	3.613013096	3.613013096
8	67.032	32.968	100	-3.4368	3.436804	3.436804368	3.436804368
9	63.76282	36.23718	100	-3.26919	3.269189	3.269189441	3.269189441
10	60.65307	39.34693	100	-3.10975	3.109749	3.109749191	3.109749191
11	57.69498	42.30502	100	-2.95808	2.958085	2.958084933	2.958084933
12	54.88116	45.11884	100	-2.81382	2.813817	2.813817429	2.813817429
13	52.20458	47.79542	100	-2.67659	2.676586	2.676585933	2.676585933
14	49.65853	50.34147	100	-2.54605	2.546047	2.546047297	2.546047297
15	47.23666	52.76334	100	-2.42188	2.421875	2.421875105	2.421875105
16	44.9329	55.0671	100	-2.30376	2.303759	2.303758862	2.303758862
17	42.74149	57.25851	100	-2.1914	2.191403	2.191403217	2.191403217
18	40.65697	59.34303	100	-2.08453	2.084527	2.084527221	2.084527221
19	38.6741	61.3259	100	-1.98286	1.982864	1.982863629	1.982863629
20	36.78794	63.21206	100	-1.88616	1.886158	1.886158228	1.886158228
21	34.99377	65.00623	100	-1.79417	1.794169	1.794169206	1.794169206
22	33.28711	66.71289	100	-1.70667	1.706667	1.706666541	1.706666541
23	31.66368	68.33632	100	-1.62343	1.623431	1.623431432	1.623431432
24	30.11942	69.88058	100	-1.54426	1.544256	1.544255747	1.544255747
25	28.65048	71.34952	100	-1.46894	1.468942	1.468941505	1.468941505
26	27.25318	72.74682	100	-1.3973	1.3973	1.397300383	1.397300383
27	25.92403	74.07597	100	-1.32915	1.329153	1.329153239	1.329153239
28	24.6597	75.3403	100	-1.26433	1.26433	1.26432967	1.26432967
29	23.45703	76.54297	100	-1.20267	1.202668	1.202667585	1.202667585
30	22.31302	77.68698	100	-1.14401	1.144013	1.144012795	1.144012795
31	21.2248	78.7752	100	-1.08822	1.088219	1.088218632	1.088218632
32	20.18965	79.81035	100	-1.03515	1.035146	1.035145583	1.035145583
33	19.20499	80.79501	100	-0.98466	0.984661	0.984660937	0.984660937
34	18.26835	81.73165	100	-0.93664	0.936638	0.936638457	0.936638457
35	17.37739	82.62261	100	-0.89096	0.890958	0.89095806	0.89095806
36	16.52989	83.47011	100	-0.84751	0.847506	0.847505523	0.847505523
37	15.72372	84.27628	100	-0.80617	0.806172	0.806172191	0.806172191
38	14.95686	85.04314	100	-0.76685	0.766855	0.766854709	0.766854709
39	14.22741	85.77259	100	-0.72945	0.729455	0.729454764	0.729454764
40	13.53353	86.46647	100	-0.69388	0.693879	0.693878835	0.693878835
41	12.87349	87.12651	100	-0.66004	0.660038	0.660037965	0.660037965
42	12.24564	87.75436	100	-0.62785	0.627848	0.627847533	0.627847533
43	11.64842	88.35158	100	-0.59723	0.597227	0.597227048	0.597227048
44	11.08032	88.91968	100	-0.5681	0.5681	0.568099941	0.568099941
45	10.53992	89.46008	100	-0.54039	0.540393	0.54039338	0.54039338
46	10.02588	89.97412	100	-0.51404	0.514038	0.514038084	0.514038084
47	9.536916	90.46308	100	-0.48897	0.488968	0.488968151	0.488968151
48	9.071795	90.9282	100	-0.46512	0.465121	0.465120893	0.465120893
49	8.629359	91.37064	100	-0.44244	0.442437	0.442436679	0.442436679

50	8.2085	91.7915	100	-0.42086	0.420859	0.420858788	0.420858788
51	7.808167	92.19183	100	-0.40033	0.400333	0.400333262	0.400333262

sec-1
sec

dopočty $l=l_0+vl*s$

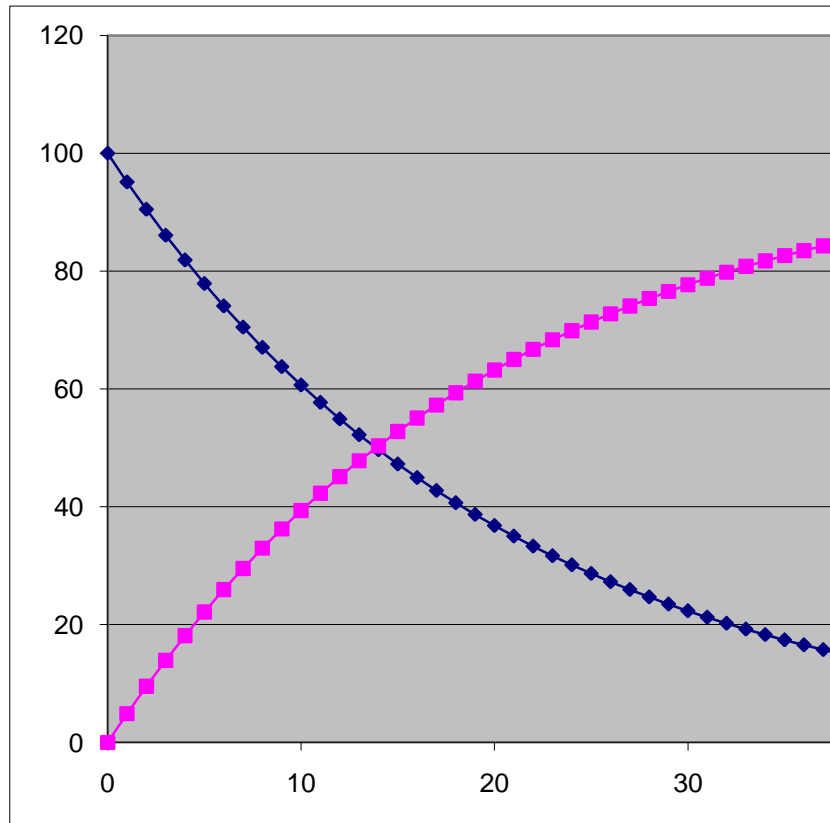
Num			
$A(t+dt)=A(t)-dt*k*A(t)$	$ds(t+dt)=s(t)+dt*k*A(t)=s(t)+dt*k*(A_0-s)$	A	
100	0	100	
95	5	95	
90.25	9.75	90.25	
85.7375	14.2625	85.7375	
81.45063	18.54938	81.45063	
77.37809	22.62191	77.37809	
73.50919	26.49081	73.50919	
69.83373	30.16627	69.83373	
66.34204	33.65796	66.34204	
63.02494	36.97506	63.02494	
59.87369	40.12631	59.87369	
56.88001	43.11999	56.88001	
54.03601	45.96399	54.03601	
51.33421	48.66579	51.33421	
48.7675	51.2325	48.7675	
46.32912	53.67088	46.32912	
44.01267	55.98733	44.01267	
41.81203	58.18797	41.81203	
39.72143	60.27857	39.72143	
37.73536	62.26464	37.73536	
35.84859	64.15141	35.84859	
34.05616	65.94384	34.05616	
32.35335	67.64665	32.35335	
30.73569	69.26431	30.73569	
29.1989	70.8011	29.1989	
27.73896	72.26104	27.73896	
26.35201	73.64799	26.35201	
25.03441	74.96559	25.03441	
23.78269	76.21731	23.78269	
22.59355	77.40645	22.59355	
21.46388	78.53612	21.46388	
20.39068	79.60932	20.39068	
19.37115	80.62885	19.37115	
18.40259	81.59741	18.40259	
17.48246	82.51754	17.48246	
16.60834	83.39166	16.60834	
15.77792	84.22208	15.77792	
14.98903	85.01097	14.98903	
14.23957	85.76043	14.23957	
13.5276	86.4724	13.5276	
12.85122	87.14878	12.85122	
12.20865	87.79135	12.20865	
11.59822	88.40178	11.59822	
11.01831	88.98169	11.01831	
10.4674	89.5326	10.4674	
9.944026	90.05597	9.944026	
9.446824	90.55318	9.446824	
8.974483	91.02552	8.974483	
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7.694498
7.309773

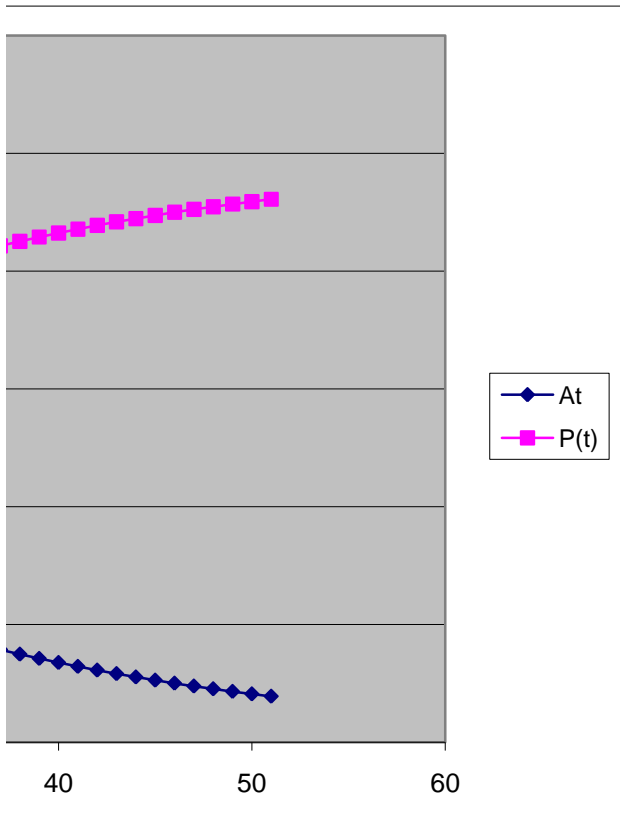
92.3055
92.69023

7.694498
7.309773

B	A+B
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14.2625	100
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26.49081	100
30.16627	100
33.65796	100
36.97506	100
40.12631	100
43.11999	100
45.96399	100
48.66579	100
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53.67088	100
55.98733	100
58.18797	100
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62.26464	100
64.15141	100
65.94384	100
67.64665	100
69.26431	100
70.8011	100
72.26104	100
73.64799	100
74.96559	100
76.21731	100
77.40645	100
78.53612	100
79.60932	100
80.62885	100
81.59741	100
82.51754	100
83.39166	100
84.22208	100
85.01097	100
85.76043	100
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87.79135	100
88.40178	100
88.98169	100
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91.90053	100



92.3055	100
92.69023	100



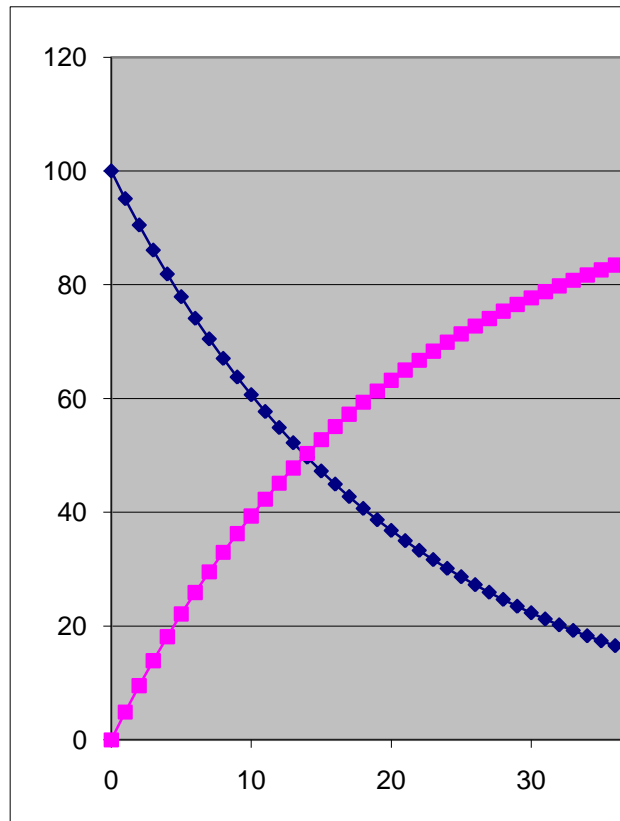
$t_0 >$ A -----> P k1 = 0.05
 step t= 100 0 mol m-3 dt= 1
 1 sec

t	At	P(t)	dA/dt	=dP/dt	v=dA/(-1*dt)	v=dP/(1*dt)	
0	100	0	100				
1	95.12294	4.877058	100	-4.87706	4.877058	4.87705755	4.87705755
2	90.48374	9.516258	100	-4.6392	4.639201	4.639200646	4.639200646
3	86.0708	13.9292	100	-4.41294	4.412944	4.412944161	4.412944161
4	81.87308	18.12692	100	-4.19772	4.197722	4.197722335	4.197722335
5	77.88008	22.11992	100	-3.993	3.992997	3.992997001	3.992997001
6	74.08182	25.91818	100	-3.79826	3.798256	3.798256239	3.798256239
7	70.46881	29.53119	100	-3.61301	3.613013	3.613013096	3.613013096
8	67.032	32.968	100	-3.4368	3.436804	3.436804368	3.436804368
9	63.76282	36.23718	100	-3.26919	3.269189	3.269189441	3.269189441
10	60.65307	39.34693	100	-3.10975	3.109749	3.109749191	3.109749191
11	57.69498	42.30502	100	-2.95808	2.958085	2.958084933	2.958084933
12	54.88116	45.11884	100	-2.81382	2.813817	2.813817429	2.813817429
13	52.20458	47.79542	100	-2.67659	2.676586	2.676585933	2.676585933
14	49.65853	50.34147	100	-2.54605	2.546047	2.546047297	2.546047297
15	47.23666	52.76334	100	-2.42188	2.421875	2.421875105	2.421875105
16	44.9329	55.0671	100	-2.30376	2.303759	2.303758862	2.303758862
17	42.74149	57.25851	100	-2.1914	2.191403	2.191403217	2.191403217
18	40.65697	59.34303	100	-2.08453	2.084527	2.084527221	2.084527221
19	38.6741	61.3259	100	-1.98286	1.982864	1.982863629	1.982863629
20	36.78794	63.21206	100	-1.88616	1.886158	1.886158228	1.886158228
21	34.99377	65.00623	100	-1.79417	1.794169	1.794169206	1.794169206
22	33.28711	66.71289	100	-1.70667	1.706667	1.706666541	1.706666541
23	31.66368	68.33632	100	-1.62343	1.623431	1.623431432	1.623431432
24	30.11942	69.88058	100	-1.54426	1.544256	1.544255747	1.544255747
25	28.65048	71.34952	100	-1.46894	1.468942	1.468941505	1.468941505
26	27.25318	72.74682	100	-1.3973	1.3973	1.397300383	1.397300383
27	25.92403	74.07597	100	-1.32915	1.329153	1.329153239	1.329153239
28	24.6597	75.3403	100	-1.26433	1.26433	1.26432967	1.26432967
29	23.45703	76.54297	100	-1.20267	1.202668	1.202667585	1.202667585
30	22.31302	77.68698	100	-1.14401	1.144013	1.144012795	1.144012795
31	21.2248	78.7752	100	-1.08822	1.088219	1.088218632	1.088218632
32	20.18965	79.81035	100	-1.03515	1.035146	1.035145583	1.035145583
33	19.20499	80.79501	100	-0.98466	0.984661	0.984660937	0.984660937
34	18.26835	81.73165	100	-0.93664	0.936638	0.936638457	0.936638457
35	17.37739	82.62261	100	-0.89096	0.890958	0.89095806	0.89095806
36	16.52989	83.47011	100	-0.84751	0.847506	0.847505523	0.847505523
37	15.72372	84.27628	100	-0.80617	0.806172	0.806172191	0.806172191
38	14.95686	85.04314	100	-0.76685	0.766855	0.766854709	0.766854709
39	14.22741	85.77259	100	-0.72945	0.729455	0.729454764	0.729454764
40	13.53353	86.46647	100	-0.69388	0.693879	0.693878835	0.693878835
41	12.87349	87.12651	100	-0.66004	0.660038	0.660037965	0.660037965
42	12.24564	87.75436	100	-0.62785	0.627848	0.627847533	0.627847533
43	11.64842	88.35158	100	-0.59723	0.597227	0.597227048	0.597227048
44	11.08032	88.91968	100	-0.5681	0.5681	0.568099941	0.568099941
45	10.53992	89.46008	100	-0.54039	0.540393	0.54039338	0.54039338
46	10.02588	89.97412	100	-0.51404	0.514038	0.514038084	0.514038084
47	9.536916	90.46308	100	-0.48897	0.488968	0.488968151	0.488968151
48	9.071795	90.9282	100	-0.46512	0.465121	0.465120893	0.465120893
49	8.629359	91.37064	100	-0.44244	0.442437	0.442436679	0.442436679

50	8.2085	91.7915	100	-0.42086	0.420859	0.420858788	0.420858788
51	7.808167	92.19183	100	-0.40033	0.400333	0.400333262	0.400333262

sec-1
sec-1

A(num)	s	B
100.000	0	0
95.000	5	5
90.250	9.75	9.75
85.738	14.2625	14.2625
81.451	18.54938	18.54938
77.378	22.62191	22.62191
73.509	26.49081	26.49081
69.834	30.16627	30.16627
66.342	33.65796	33.65796
63.025	36.97506	36.97506
59.874	40.12631	40.12631
56.880	43.11999	43.11999
54.036	45.96399	45.96399
51.334	48.66579	48.66579
48.767	51.2325	51.2325
46.329	53.67088	53.67088
44.013	55.98733	55.98733
41.812	58.18797	58.18797
39.721	60.27857	60.27857
37.735	62.26464	62.26464
35.849	64.15141	
34.056	65.94384	
32.353	67.64665	
30.736	69.26431	
29.199	70.8011	
27.739	72.26104	
26.352	73.64799	
25.034	74.96559	
23.783	76.21731	
22.594	77.40645	
21.464	78.53612	
20.391	79.60932	
19.371	80.62885	
18.403	81.59741	
17.482	82.51754	
16.608	83.39166	
15.778	84.22208	
14.989	85.01097	
14.240	85.76043	
13.528	86.4724	
12.851	87.14878	
12.209	87.79135	
11.598	88.40178	
11.018	88.98169	
10.467	89.5326	
9.944	90.05597	90.05597
9.447	90.55318	90.55318
8.974	91.02552	91.02552
8.526	91.47424	91.47424
8.099	91.90053	91.90053



7.694
7.310

92.3055
92.69023

92.3055
92.69023

