

2.a.							
e^		5.5					
Term	x^n term	x^n term rounded	denominator	Final number	Final number rounded		
1	1.000	1.000	1	1	1		
2	5.500	5.500	1	5.50000	5.5		
3	30.250	30.250	2	15.12500	15.125		
4	166.37500	166.37500	6	27.72917	27.72917		
5	915.06250	915.06250	24	38.12760	38.1276		
6	5032.84375	5032.84375	120	41.94036	41.94036		
7	27680.64063	27680.64063	720	38.44533	38.44533		
8	152243.52347	152243.52347	5040	30.20705	30.20705		
9	837339.37909	837339.37909	40320	20.76735	20.76735		
10	4605366.58500	4605366.58500	362880	12.69116	12.69116		
11	25329516.21750	25329516.21750	3628800	6.98014	6.98014		
12	139312339.19625	139312339.19625	39916800	3.49007	3.49007		
13	766217865.57938	766217865.57938	479001600	1.59961	1.59961		
14	4214198260.68659	4214198260.68659	6227020800	0.67676	0.67676		
15	23178090433.77620	23178090433.77620	87178291200	0.26587	0.26587		
16	127479497385.76900	127479497385.76900	1.30767E+12	0.097486	0.097486		
17	701137235621.73100	701137235621.73100	2.09228E+13	0.033511	0.033511		
18	3856254795919.52000	3856254795919.52000	3.55687E+14	0.010842	0.010842		
19	21209401377557.40000	21209401377557.40000	6.40237E+15	0.0033127	0.0033127		
20	116651707576566.00000	116651707576566.00000	1.21645E+17	0.00095895	0.00095895		
21	641584391671111.00000	641584391671111.00000	2.4329E+18	0.00026371	0.00026371		
22	3528714154191110.00000	3528714154191110.00000	5.10909E+19	0.000069067	0.000069067		
23	19407927848051100.00000	19407927848051100.00000	1.124E+21	0.000017267	0.000017267		
24	106743603164281000.00000	106743603164281000.00000	2.5852E+22	0.0000041290	4.1290E-06		
25	587089817403546000.00000	587089817403546000.00000	6.20448E+23	0.00000094623	9.4623E-07		
26	3228993995719500000.00000	3228993995719500000.00000	1.55112E+25	0.00000020817	2.0817E-07		
27	17759466976457300000.00000	17759466976457300000.00000	4.03291E+26	0.000000044036	4.4036E-08		
28	97677068370514900000.00000	97677068370514900000.00000	1.08889E+28	0.0000000089704	8.9704E-09		
29	537223876037832000000.00000	537223876037832000000.00000	3.04888E+29	0.0000000017620	1.7620E-09		
30	2954731318208080000000.00000	2954731318208080000000.00000	8.84176E+30	0.00000000033418	3.3418E-10		
31	16251022250144400000000.00000	16251022250144400000000.00000	2.65253E+32	0.000000000061266	6.1266E-11		

2.b.		5.5						
e^								
Term	x^n term	x^n term rounded	denominator	Final number	Final number rounded	Sum		Rounded Sum
1	1.000	1.000	1	1	1	1		1
2	5.500	5.500	1	5.50000	5.5	6.5		6.5
3	30.250	30.250	2	15.12500	15.125	21.625		21.625
4	166.37500	166.37500	6	27.72917	27.72917	49.35417		49.35417
5	915.06250	915.06250	24	38.12760	38.1276	87.48177		87.48177
6	5032.84375	5032.84375	120	41.94036	41.94036	129.42213		129.42213
7	27680.64063	27680.64063	720	38.44533	38.44533	167.86746		167.86746
8	152243.52347	152243.52347	5040	30.20705	30.20705	198.07451		198.07451
9	837339.37909	837339.37909	40320	20.76735	20.76735	218.84186		218.84186
10	4605366.58500	4605366.58500	362880	12.69116	12.69116	231.53302		231.53302
11	25329516.21750	25329516.21750	3628800	6.98014	6.98014	238.51316		238.51316
12	139312339.19625	139312339.19625	39916800	3.49007	3.49007	242.00323		242.00323
13	766217865.57938	766217865.57938	479001600	1.59961	1.59961	243.60284		243.60284
14	4214198260.68659	4214198260.68659	6227020800	0.67676	0.67676	244.2796		244.2796
15	23178090433.77620	23178090433.77620	87178291200	0.26587	0.26587	244.54547		244.54547
16	127479497385.76900	127479497385.76900	1.30767E+12	0.097486	0.097486	244.64296		244.64296
17	701137235621.73100	701137235621.73100	2.09228E+13	0.033511	0.033511	244.67647		244.67647
18	3856254795919.52000	3856254795919.52000	3.55687E+14	0.010842	0.010842	244.68731		244.68731
19	21209401377557.40000	21209401377557.40000	6.40237E+15	0.0033127	0.0033127	244.69062		244.69062
20	116651707576566.00000	116651707576566.00000	1.21645E+17	0.00095895	0.00095895	244.69158		244.69158
21	641584391671111.00000	641584391671111.00000	2.4329E+18	0.00026371	0.00026371	244.69184		244.69184
22	3528714154191110.00000	3528714154191110.00000	5.10909E+19	0.000069067	0.000069067	244.69191		244.69191
23	19407927848051100.00000	19407927848051100.00000	1.124E+21	0.000017267	0.000017267	244.69193		244.69193
24	106743603164281000.00000	106743603164281000.00000	2.5852E+22	0.0000041290	4.1290E-06	244.69193		244.69193
25	587089817403546000.00000	587089817403546000.00000	6.20448E+23	0.00000094623	9.4623E-07	244.69193		244.69193
26	3228993995719500000.00000	3228993995719500000.00000	1.55112E+25	0.00000020817	2.0817E-07	244.69193		244.69193
27	17759466976457300000.00000	17759466976457300000.00000	4.03291E+26	0.000000044036	4.4036E-08	244.69193		244.69193
28	97677068370514900000.00000	97677068370514900000.00000	1.08889E+28	0.0000000089704	8.9704E-09	244.69193		244.69193
29	537223876037832000000.00000	537223876037832000000.00000	3.04888E+29	0.0000000017620	1.7620E-09	244.69193		244.69193
30	2954731318208080000000.00000	2954731318208080000000.00000	8.84176E+30	0.00000000033418	3.3418E-10	244.69193		244.69193
31	16251022250144400000000.00000	16251022250144400000000.00000	2.65253E+32	0.000000000061266	6.1266E-11	244.69193		244.69193
The value converges when k = 23.						Sum		244.69193
						Actual value		244.69193226422
						Relative Error		9.25335E-09

2.c.								
e^	5.5							
Term	x^n term	x^n term rounded	denominator	Final number	Final number rounded	Sum		Rounded Sum
1	1.000	1.000	1	1	1	244.69194		244.69194
2	5.500	5.500	1	5.50000	5.5	243.69194		243.69194
3	30.250	30.250	2	15.12500	15.125	238.19194		238.19194
4	166.37500	166.37500	6	27.72917	27.72917	223.06694		223.06694
5	915.06250	915.06250	24	38.12760	38.1276	195.33777		195.33777
6	5032.84375	5032.84375	120	41.94036	41.94036	157.21017		157.21017
7	27680.64063	27680.64063	720	38.44533	38.44533	115.26981		115.26981
8	152243.52347	152243.52347	5040	30.20705	30.20705	76.82448		76.82448
9	837339.37909	837339.37909	40320	20.76735	20.76735	46.61743		46.61743
10	4605366.58500	4605366.58500	362880	12.69116	12.69116	25.85008		25.85008
11	25329516.21750	25329516.21750	3628800	6.98014	6.98014	13.15892		13.15892
12	139312339.19625	139312339.19625	39916800	3.49007	3.49007	6.17878		6.17878
13	766217865.57938	766217865.57938	479001600	1.59961	1.59961	2.68871		2.68871
14	4214198260.68659	4214198260.68659	6227020800	0.67676	0.67676	1.08910		1.0891
15	23178090433.77620	23178090433.77620	87178291200	0.26587	0.26587	0.41234		0.41234
16	127479497385.76900	127479497385.76900	1.30767E+12	0.097486	0.097486	0.14647		0.14647
17	701137235621.73100	701137235621.73100	2.09228E+13	0.033511	0.033511	0.048980		0.04898
18	3856254795919.52000	3856254795919.52000	3.55687E+14	0.010842	0.010842	0.015469		0.015469
19	21209401377557.40000	21209401377557.40000	6.40237E+15	0.0033127	0.0033127	0.0046270		0.004627
20	116651707576566.00000	116651707576566.00000	1.21645E+17	0.00095895	0.00095895	0.0013143		0.0013143
21	641584391671111.00000	641584391671111.00000	2.4329E+18	0.00026371	0.00026371	0.00035538		0.00035538
22	3528714154191110.00000	3528714154191110.00000	5.10909E+19	0.000069067	0.000069067	0.000091673		0.000091673
23	19407927848051100.00000	19407927848051100.00000	1.124E+21	0.000017267	0.000017267	0.000022606		0.000022606
24	106743603164281000.00000	106743603164281000.00000	2.5852E+22	0.0000041290	4.1290E-06	0.0000053386		0.0000053386
25	587089817403546000.00000	587089817403546000.00000	6.20448E+23	0.00000094623	9.4623E-07	0.0000012096		0.0000012096
26	3228993995719500000.00000	3228993995719500000.00000	1.55112E+25	0.00000020817	2.0817E-07	0.00000026333		0.00000026333
27	17759466976457300000.00000	17759466976457300000.00000	4.03291E+26	0.000000044036	4.4036E-08	0.000000055164		0.000000055164
28	97677068370514900000.00000	97677068370514900000.00000	1.08889E+28	0.0000000089704	8.9704E-09	0.000000011128		0.000000011128
29	537223876037832000000.00000	537223876037832000000.00000	3.04888E+29	0.0000000017620	1.7620E-09	0.0000000021575		0.0000000021575
30	2954731318208080000000.00000	2954731318208080000000.00000	8.84176E+30	0.00000000033418	3.3418E-10	0.00000000039546		0.00000000039546
31	16251022250144400000000.00000	16251022250144400000000.00000	2.65253E+32	0.000000000061266	6.1266E-11	6.1266E-11		0.000000000061278
						Sum		244.69194
The value never converges to 5 significant figures. The relative error is much larger.						Actual value		244.69193226422
						Relative Error		3.16144E-08

2.d.i. e^	-5.5							
Term	x^n term	x^n term rounded	denominator	Final number	Final number rounded	Sum		Rounded Sum
1	1.000	1.000	1	1	1	1		1
2	-5.50000	-5.500	1	-5.50000	-5.5	-4.5		-4.5
3	30.25000	30.250	2	15.12500	15.125	10.625		10.625
4	-166.37500	-166.37500	6	-27.72917	-27.72917	-17.10417		-17.10417
5	915.06250	915.06250	24	38.12760	38.1276	21.02343		21.02343
6	-5032.84375	-5032.84375	120	-41.94036	-41.94036	-20.91693		-20.91693
7	27680.64063	27680.64063	720	38.44533	38.44533	17.5284		17.5284
8	-152243.52347	-152243.52347	5040	-30.20705	-30.20705	-12.67865		-12.67865
9	837339.37909	837339.37909	40320	20.76735	20.76735	8.0887		8.0887
10	-4605366.58500	-4605366.58500	362880	-12.69116	-12.69116	-4.60246		-4.60246
11	25329516.21750	25329516.21750	3628800	6.98014	6.98014	2.37768		2.37768
12	-139312339.19625	-139312339.19625	39916800	-3.49007	-3.49007	-1.11239		-1.11239
13	766217865.57938	766217865.57938	479001600	1.59961	1.59961	0.48722		0.48722
14	-4214198260.68659	-4214198260.68659	6227020800	-0.67676	-0.67676	-0.18954		-0.18954
15	23178090433.77620	23178090433.77620	87178291200	0.26587	0.26587	0.076330		0.07633
16	-127479497385.76900	-127479497385.76900	1.30767E+12	-0.097486	-0.097486	-0.021156		-0.021156
17	701137235621.72900	701137235621.73100	2.09228E+13	0.033511	0.033511	0.012355		0.012355
18	-3856254795919.52000	-3856254795919.52000	3.55687E+14	-0.010842	-0.010842	0.001513		0.001513
19	21209401377557.40000	21209401377557.40000	6.40237E+15	0.0033127	0.0033127	0.0048257		0.0048257
20	-116651707576566.00000	-116651707576566.00000	1.21645E+17	-0.00095895	-0.00095895	0.0038668		0.0038668
21	641584391671113.00000	641584391671111.00000	2.4329E+18	0.00026371	0.00026371	0.0041305		0.0041305
22	-3528714154191110.00000	-3528714154191110.00000	5.10909E+19	-0.000069067	-0.000069067	0.0040614		0.0040614
23	19407927848051100.00000	19407927848051100.00000	1.124E+21	0.000017267	0.000017267	0.0040787		0.0040787
24	-106743603164281000.00000	-106743603164281000.00000	2.5852E+22	-0.0000041290	-4.1290E-06	0.0040746		0.0040746
25	587089817403545000.00000	587089817403546000.00000	6.20448E+23	0.00000094623	9.4623E-07	0.0040755		0.0040755
26	-3228993995719500000.00000	-3228993995719500000.00000	1.55112E+25	-0.00000020817	-2.0817E-07	0.0040753		0.0040753
27	17759466976457200000.00000	17759466976457300000.00000	4.03291E+26	0.000000044036	4.4036E-08	0.0040753		0.0040753
28	-97677068370514900000.00000	-97677068370514900000.00000	1.08889E+28	-0.0000000089704	-8.9704E-09	0.0040753		0.0040753
29	537223876037832000000.00000	537223876037832000000.00000	3.04888E+29	0.0000000017620	1.7620E-09	0.0040753		0.0040753
30	-2954731318208080000000.00000	-2954731318208080000000.00000	8.84176E+30	-0.00000000033418	-3.3418E-10	0.0040753		0.0040753
31	16251022250144400000000.00000	16251022250144400000000.00000	2.65253E+32	0.000000000061266	6.1266E-11	0.0040753		0.0040753
						Sum		1.00000
						Actual value		0.00408677144
						Relative Error		243.6919323

2.d.ii. e^	-5.5							
Term	x^n term	x^n term rounded	denominator	Final number	Final number rounded	Sum		Rounded Sum
1	1.000	1.000	1	1	1	0.0040800		0.0040800
2	-5.50000	-5.500	1	-5.50000	-5.5	-0.99592		-0.99592
3	30.25000	30.250	2	15.12500	15.125	4.50408		4.50408
4	-166.37500	-166.37500	6	-27.72917	-27.72917	-10.62092		-10.62092
5	915.06250	915.06250	24	38.12760	38.1276	17.10825		17.10825
6	-5032.84375	-5032.84375	120	-41.94036	-41.94036	-21.01935		-21.01935
7	27680.64063	27680.64063	720	38.44533	38.44533	20.92101		20.92101
8	-152243.52347	-152243.52347	5040	-30.20705	-30.20705	-17.52432		-17.52432
9	837339.37909	837339.37909	40320	20.76735	20.76735	12.68273		12.68273
10	-4605366.58500	-4605366.58500	362880	-12.69116	-12.69116	-8.08462		-8.08462
11	25329516.21750	25329516.21750	3628800	6.98014	6.98014	4.60654		4.60654
12	-139312339.19625	-139312339.19625	39916800	-3.49007	-3.49007	-2.37360		-2.37360
13	766217865.57938	766217865.57938	479001600	1.59961	1.59961	1.11647		1.11647
14	-4214198260.68659	-4214198260.68659	6227020800	-0.67676	-0.67676	-0.48314		-0.48314
15	23178090433.77620	23178090433.77620	87178291200	0.26587	0.26587	0.19362		0.19362
16	-127479497385.76900	-127479497385.76900	1.30767E+12	-0.097486	-0.097486	-0.072255		-0.072255
17	701137235621.72900	701137235621.73100	2.09228E+13	0.033511	0.033511	0.025231		0.025231
18	-3856254795919.52000	-3856254795919.52000	3.55687E+14	-0.010842	-0.010842	-0.0082797		-0.0082797
19	21209401377557.40000	21209401377557.40000	6.40237E+15	0.0033127	0.0033127	0.0025623		0.0025623
20	-116651707576566.00000	-116651707576566.00000	1.21645E+17	-0.00095895	-0.00095895	-0.00075039		-0.00075039
21	641584391671113.00000	641584391671111.00000	2.4329E+18	0.00026371	0.00026371	0.00020856		0.00020856
22	-3528714154191110.00000	-3528714154191110.00000	5.10909E+19	-0.000069067	-0.000069067	-0.000055154		-0.000055154
23	19407927848051100.00000	19407927848051100.00000	1.124E+21	0.000017267	0.000017267	0.000013913		0.000013913
24	-106743603164281000.00000	-106743603164281000.00000	2.5852E+22	-0.0000041290	-4.1290E-06	-0.0000033544		-0.0000033544
25	587089817403545000.00000	587089817403546000.00000	6.20448E+23	0.00000094623	9.4623E-07	0.00000077461		0.00000077461
26	-3228993995719500000.00000	-3228993995719500000.00000	1.55112E+25	-0.00000020817	-2.0817E-07	-0.00000017162		-0.00000017162
27	17759466976457200000.00000	17759466976457300000.00000	4.03291E+26	0.000000044036	4.4036E-08	0.000000036555		0.000000036555
28	-97677068370514900000.00000	-97677068370514900000.00000	1.08889E+28	-0.0000000089704	-8.9704E-09	-0.0000000074813		-0.0000000074813
29	537223876037832000000.00000	537223876037832000000.00000	3.04888E+29	0.0000000017620	1.7620E-09	0.0000000014891		0.0000000014891
30	-2954731318208080000000.00000	-2954731318208080000000.00000	8.84176E+30	-0.00000000033418	-3.3418E-10	-0.00000000027290		-0.00000000027290
31	16251022250144400000000.00000	16251022250144400000000.00000	2.65253E+32	0.000000000061266	6.1266E-11	6.1266E-11		0.000000000061278
						Sum		0.00408
						Actual value		0.00408677144
						Relative Error		0.001656916

2.d.iii. e^	-5.5							
Term	x^n term	x^n term rounded	denominator	Final number	Final number rounded	Positive Sums	Negative sums	Rounded Sum
1	1.000	1.000	1	1	1	1.0000000		1.0000000
2	-5.50000	-5.500	1	-5.50000	-5.5		-5.50000	-5.5
3	30.25000	30.250	2	15.12500	15.125	16.12500		16.125
4	-166.37500	-166.37500	6	-27.72917	-27.72917		-33.22917	-33.22917
5	915.06250	915.06250	24	38.12760	38.1276	54.25260		54.2526
6	-5032.84375	-5032.84375	120	-41.94036	-41.94036		-75.16953	-75.16953
7	27680.64063	27680.64063	720	38.44533	38.44533	92.69793		92.69793
8	-152243.52347	-152243.52347	5040	-30.20705	-30.20705		-105.37658	-105.37658
9	837339.37909	837339.37909	40320	20.76735	20.76735	113.46528		113.46528
10	-4605366.58500	-4605366.58500	362880	-12.69116	-12.69116		-118.06774	-118.06774
11	25329516.21750	25329516.21750	3628800	6.98014	6.98014	120.44542		120.44542
12	-139312339.19625	-139312339.19625	39916800	-3.49007	-3.49007		-121.55781	-121.55781
13	766217865.57938	766217865.57938	479001600	1.59961	1.59961	122.04503		122.04503
14	-4214198260.68659	-4214198260.68659	6227020800	-0.67676	-0.67676		-122.23457	-122.23457
15	23178090433.77620	23178090433.77620	87178291200	0.26587	0.26587	122.31090		122.31090
16	-127479497385.76900	-127479497385.76900	1.30767E+12	-0.097486	-0.097486		-122.33206	-122.33206
17	701137235621.72900	701137235621.73100	2.09228E+13	0.033511	0.033511	122.34441		122.34441
18	-3856254795919.52000	-3856254795919.52000	3.55687E+14	-0.010842	-0.010842		-122.34290	-122.3429
19	21209401377557.40000	21209401377557.40000	6.40237E+15	0.0033127	0.0033127	122.34772		122.34772
20	-116651707576566.00000	-116651707576566.00000	1.21645E+17	-0.00095895	-0.00095895		-122.34386	-122.34386
21	641584391671113.00000	641584391671111.00000	2.4329E+18	0.00026371	0.00026371	122.34798		122.34798
22	-3528714154191110.00000	-3528714154191110.00000	5.10909E+19	-0.000069067	-0.000069067		-122.34393	-122.34393
23	19407927848051100.00000	19407927848051100.00000	1.124E+21	0.000017267	0.000017267	122.34800		122.34800
24	-106743603164281000.00000	-106743603164281000.00000	2.5852E+22	-0.0000041290	-4.1290E-06		-122.34393	-122.34393
25	587089817403545000.00000	587089817403546000.00000	6.20448E+23	0.00000094623	9.4623E-07	122.34800		122.34800
26	-3228993995719500000.00000	-3228993995719500000.00000	1.55112E+25	-0.00000020817	-2.0817E-07		-122.34393	-122.34393
27	17759466976457200000.00000	17759466976457300000.00000	4.03291E+26	0.000000044036	4.4036E-08	122.34800		122.34800
28	-97677068370514900000.00000	-97677068370514900000.00000	1.08889E+28	-0.0000000089704	-8.9704E-09		-122.34393	-122.34393
29	537223876037832000000.00000	537223876037832000000.00000	3.04888E+29	0.0000000017620	1.7620E-09	122.34800		122.34800
30	-2954731318208080000000.00000	-2954731318208080000000.00000	8.84176E+30	-0.00000000033418	-3.3418E-10		-122.34393	-122.34393
31	16251022250144400000000.00000	16251022250144400000000.00000	2.65253E+32	0.000000000061266	6.1266E-11	122.34800		122.34800
							Sum	0.00407
							Actual value	0.00408677144
							Relative Error	0.004103836

2.d.iv.								
e^	-5.5							
Term	x^n term	x^n term rounded	denominator	Final number	Final number rounded	Positive Sums	Negative sums	Rounded Sum
1	1.000	1.000	1	1	1	122.34801		122.34801
2	-5.50000	-5.500	1	-5.50000	-5.5		-122.34393	-122.34393
3	30.25000	30.250	2	15.12500	15.125	121.34801		121.34801
4	-166.37500	-166.37500	6	-27.72917	-27.72917		-116.84393	-116.84393
5	915.06250	915.06250	24	38.12760	38.1276	106.22301		106.22301
6	-5032.84375	-5032.84375	120	-41.94036	-41.94036		-89.11476	-89.11476
7	27680.64063	27680.64063	720	38.44533	38.44533	68.09541		68.09541
8	-152243.52347	-152243.52347	5040	-30.20705	-30.20705		-47.17440	-47.17440
9	837339.37909	837339.37909	40320	20.76735	20.76735	29.65008		29.65008
10	-4605366.58500	-4605366.58500	362880	-12.69116	-12.69116		-16.96735	-16.96735
11	25329516.21750	25329516.21750	3628800	6.98014	6.98014	8.88273		8.88273
12	-139312339.19625	-139312339.19625	39916800	-3.49007	-3.49007		-4.27619	-4.27619
13	766217865.57938	766217865.57938	479001600	1.59961	1.59961	1.90259		1.90259
14	-4214198260.68659	-4214198260.68659	6227020800	-0.67676	-0.67676		-0.78612	-0.78612
15	23178090433.77620	23178090433.77620	87178291200	0.26587	0.26587	0.30298		0.30298
16	-127479497385.76900	-127479497385.76900	1.30767E+12	-0.097486	-0.097486		-0.10936	-0.10936
17	701137235621.72900	701137235621.73100	2.09228E+13	0.033511	0.033511	0.037106		0.037106
18	-3856254795919.52000	-3856254795919.52000	3.55687E+14	-0.010842	-0.010842		-0.011874	-0.011874
19	21209401377557.40000	21209401377557.40000	6.40237E+15	0.0033127	0.0033127	0.0035947		0.0035947
20	-116651707576566.00000	-116651707576566.00000	1.21645E+17	-0.00095895	-0.00095895		-0.0010324	-0.0010323
21	641584391671113.00000	641584391671111.00000	2.4329E+18	0.00026371	0.00026371	0.00028197		0.00028197
22	-3528714154191110.00000	-3528714154191110.00000	5.10909E+19	-0.000069067	-0.000069067		-0.000073414	-0.000073414
23	19407927848051100.00000	19407927848051100.00000	1.124E+21	0.000017267	0.000017267	0.000018260		0.000018260
24	-106743603164281000.00000	-106743603164281000.00000	2.5852E+22	-0.0000041290	-4.1290E-06		-0.0000043465	-0.0000043465
25	587089817403545000.00000	587089817403546000.00000	6.20448E+23	0.00000094623	9.4623E-07	0.00000099209		0.00000099290
26	-3228993995719500000.00000	-3228993995719500000.00000	1.55112E+25	-0.00000020817	-2.0817E-07		-0.00000021747	-0.00000021747
27	17759466976457200000.00000	17759466976457300000.00000	4.03291E+26	0.000000044036	4.4036E-08	0.000000045859		0.000000045859
28	-97677068370514900000.00000	-97677068370514900000.00000	1.08889E+28	-0.0000000089704	-8.9704E-09		-0.0000000093046	-0.0000000093046
29	537223876037832000000.00000	537223876037832000000.00000	3.04888E+29	0.0000000017620	1.7620E-09	0.0000000018233		0.0000000018233
30	-2954731318208080000000.00000	-2954731318208080000000.00000	8.84176E+30	-0.00000000033418	-3.3418E-10		-0.00000000033418	-0.00000000033418
31	16251022250144400000000.00000	16251022250144400000000.00000	2.65253E+32	0.000000000061266	6.1266E-11	0.000000000061266		0.000000000061266
							Sum	0.00408
Adding from right to left has the lowest amount of error. Adding from left to right converges most quickly.							Actual value	0.00408677144
In contrast, when the exponent was positive, adding from left to right had the least amount of error.							Relative Error	0.001656916
2.e.	You could using binary splitting							