

```

ClearAll["Global`*"]

tk[n_, k_, a_] := Sum[tk[n/j, k-1, a], {j, 2, n}] -
  a Sum[tk[n/(a j), k-1, a], {j, 1, n/a}]; tk[n_, 0, a_] := 1

tki[n_, k_, k2_, a_] := tki[n, k, k2, a] = Sum[tki[n/j, k-1, k2, a], {j, 2, n}]
tki[n_, 0, k2_, a_] := tkp[n, k2, a]
tkp[n_, k_, a_] := tkp[n, k, a] = Sum[tkp[n/(a j), k-1, a], {j, 1, n/a}]
tkp[n_, 0, a_] := 1
tk2[n_, k_, a_] :=
  tk2[n, k, a] = Sum[(-1)^j a^j Binomial[k, j] tki[n, k-j, j, a], {j, 0, k}]
tk2s[n_, k_, j_, a_] := (-1)^j a^j Binomial[k, j] tki[n, k-j, j, a]
tk2s2[n_, k_, j_, a_] := tki[n, k-j, j, a]

D1[n_, k_] := Sum[D1[Floor[n/j], k-1], {j, 1, n}]; D1[n_, 0] := 1
Lina[n_, a_] := Sum[ ((-1)^(k+1) tk2[n, k, a] + 1) / k + (a^k - 1) / k, {k, 1, Log[a, n]}]
Linb[n_, a_] :=
  Sum[ (-1)^(k+1) / k tk[n, k, a], {k, 1, Log[2, n]}] + Sum[ a^k / k, {k, 1, Log[a, n]}]
Lin2[n_, a_] := If[a >= 2, Linb[n, a], Lina[n, a]]

st[n_, a_, k_] := If[tk2[a, n, k] != 0, (-1)^(n+1) / n tk2[a, n, k] + 1 / n, 0]

Lina[100, 1.03]

28.5333

tk[1000, 4, 1.2]

-1357.35

tk2[1000, 4, 1.2]

-1357.35

```

```
Table[{n, (-1)^(n+1)/n tk[8, n, 1.1]}, {n, 1, 25}] // TableForm
```

1	-0.70000000000000011`
2	-1.0700000000000003`
3	-0.748333333333334`
4	4.770425000000001`
5	-4.647852000000002`
6	-0.8150156666666672`
7	-0.8581717571428582`
8	8.731581278750005`
9	-8.485580349888895`
10	-0.730963784210001`
11	2.074993968080002`
12	-0.5468473686710844`
13	-0.5794021618561859`
14	-0.6164770025701977`
15	3.519015124538037`
16	-0.28718581164732637`
17	-0.2973217814701732`
18	-0.3088842951940132`
19	-0.32188994972849805`
20	-0.3363749974662805`
21	-0.35239285448848434`
22	0.`
23	0.`
24	0.`
25	0.`

```
Table[{n, 1.04^n, (-1)^(n+1) / n tk[8, n, 1.04]}, {n, 1, 54}] // TableForm
```

1	1.04	-0.28
2	1.0816	-1.7928
3	1.12486	-0.306197
4	1.16986	0.599639
5	1.21665	-0.488101
6	1.26532	-0.468255
7	1.31593	-0.458574
8	1.36857	10.493
9	1.42331	-10.913
10	1.48024	-0.385608
11	1.53945	-0.388176
12	1.60103	1.20827
13	1.66507	-0.334985
14	1.73168	-0.340151
15	1.80094	-0.346513
16	1.87298	-0.353955
17	1.9479	-0.362392
18	2.02582	18.8735
19	2.10685	-17.8041
20	2.19112	-0.278104
21	2.27877	-0.283803
22	2.36992	-0.290025
23	2.46472	-0.296755
24	2.5633	-0.303982
25	2.66584	-0.311698
26	2.77247	2.45257
27	2.88337	-0.21769
28	2.9987	-0.222431
29	3.11865	-0.227488
30	3.2434	-0.232859
31	3.37313	-0.238547
32	3.50806	-0.244552
33	3.64838	-0.250879
34	3.79432	-0.257533
35	3.94609	-0.264518
36	4.10393	3.83209
37	4.26809	-0.115354
38	4.43881	-0.116811
39	4.61637	-0.118368
40	4.80102	-0.120026
41	4.99306	-0.121782
42	5.19278	-0.123638
43	5.4005	-0.125593
44	5.61652	-0.127648
45	5.84118	-0.129804
46	6.07482	-0.132061
47	6.31782	-0.134422
48	6.57053	-0.136886
49	6.83335	-0.139456
50	7.10668	-0.142134
51	7.39095	-0.144921
52	7.68659	-0.147819
53	7.99405	-0.150831
54	8.31381	0.

```
Table[{n, 1.01^n, (-1)^(n+1)/n tk2[8, n, 1.01]}, {n, 1, 210}] // TableForm
```

1	1.01	-0.07
2	1.0201	-1.5708
3	1.0303	-0.0716093
4	1.0406	-0.322428
5	1.05101	-0.273256
6	1.06152	-0.240761
7	1.07214	-0.217799
8	1.08286	-0.2008
9	1.09369	-0.187779
10	1.10462	-0.177545
11	1.11567	-0.169342
12	1.12683	-0.162665
13	1.13809	-0.157163
14	1.14947	0.996886
15	1.16097	-0.137262
16	1.17258	-0.133921
17	1.1843	-0.13108
18	1.19615	-0.128658
19	1.20811	-0.12659
20	1.22019	-0.124824
21	1.23239	-0.123319
22	1.24472	-0.122041
23	1.25716	-0.120962
24	1.26973	-0.120058
25	1.28243	-0.11931
26	1.29526	-0.118701
27	1.30821	-0.118216
28	1.32129	-0.117845
29	1.3345	38.583
30	1.34785	-38.4177
31	1.36133	-0.0998295
32	1.37494	-0.0995092
33	1.38869	-0.0992573
34	1.40258	-0.0990685
35	1.4166	-0.0989382
36	1.43077	-0.0988622
37	1.44508	-0.0988368
38	1.45953	-0.0988586
39	1.47412	-0.0989247
40	1.48886	-0.0990326
41	1.50375	-0.0991797
42	1.51879	-0.0993639
43	1.53398	-0.0995834
44	1.54932	-0.0998363
45	1.56481	-0.100121
46	1.58046	-0.100436
47	1.59626	-0.10078
48	1.61223	1.51107
49	1.62835	-0.0854294
50	1.64463	-0.085693
51	1.66108	-0.08598
52	1.67769	-0.0862894
53	1.69447	-0.0866205
54	1.71141	-0.0869726
55	1.72852	-0.0873451

56	1.74581	-0.0877373
57	1.76327	-0.0881487
58	1.7809	-0.0885788
59	1.79871	-0.0890271
60	1.8167	-0.0894932
61	1.83486	-0.0899768
62	1.85321	-0.0904774
63	1.87174	-0.0909947
64	1.89046	-0.0915284
65	1.90937	-0.0920783
66	1.92846	-0.0926441
67	1.94774	-0.0932255
68	1.96722	-0.0938224
69	1.98689	-0.0944346
70	2.00676	71.145
71	2.02683	-69.61
72	2.0471	-0.0689686
73	2.06757	-0.0692649
74	2.08825	-0.0695709
75	2.10913	-0.0698866
76	2.13022	-0.0702118
77	2.15152	-0.0705462
78	2.17304	-0.0708899
79	2.19477	-0.0712426
80	2.21672	-0.0716043
81	2.23888	-0.0719748
82	2.26127	-0.0723541
83	2.28388	-0.0727421
84	2.30672	-0.0731387
85	2.32979	-0.0735437
86	2.35309	-0.0739573
87	2.37662	-0.0743792
88	2.40038	-0.0748095
89	2.42439	-0.075248
90	2.44863	-0.0756948
91	2.47312	-0.0761498
92	2.49785	-0.0766129
93	2.52283	-0.0770842
94	2.54806	-0.0775636
95	2.57354	-0.078051
96	2.59927	-0.0785465
97	2.62527	-0.0790501
98	2.65152	-0.0795616
99	2.67803	2.59795
100	2.70481	-0.0538285
101	2.73186	-0.0540963
102	2.75918	-0.0543694
103	2.78677	-0.0546478
104	2.81464	-0.0549316
105	2.84279	-0.0552206
106	2.87121	-0.0555148
107	2.89993	-0.0558143
108	2.92893	-0.0561189
109	2.95822	-0.0564288
110	2.9878	-0.0567439
111	3.01768	-0.0570642

112	3.04785	-0.0573897
113	3.07833	-0.0577204
114	3.10911	-0.0580562
115	3.1402	-0.0583973
116	3.17161	-0.0587435
117	3.20332	-0.0590949
118	3.23536	-0.0594515
119	3.26771	-0.0598133
120	3.30039	-0.0601803
121	3.33339	-0.0605526
122	3.36672	-0.06093
123	3.40039	-0.0613127
124	3.4344	-0.0617007
125	3.46874	-0.0620939
126	3.50343	-0.0624924
127	3.53846	-0.0628962
128	3.57385	-0.0633053
129	3.60958	-0.0637197
130	3.64568	-0.0641395
131	3.68214	-0.0645647
132	3.71896	-0.0649953
133	3.75615	-0.0654313
134	3.79371	-0.0658727
135	3.83165	-0.0663197
136	3.86996	-0.0667721
137	3.90866	-0.06723
138	3.94775	-0.0676935
139	3.98723	-0.0681626
140	4.0271	3.95846
141	4.06737	-0.0288466
142	4.10804	-0.0289299
143	4.14912	-0.0290149
144	4.19062	-0.0291015
145	4.23252	-0.0291898
146	4.27485	-0.0292798
147	4.3176	-0.0293714
148	4.36077	-0.0294647
149	4.40438	-0.0295596
150	4.44842	-0.0296562
151	4.49291	-0.0297544
152	4.53784	-0.0298542
153	4.58321	-0.0299557
154	4.62905	-0.0300587
155	4.67534	-0.0301635
156	4.72209	-0.0302698
157	4.76931	-0.0303778
158	4.817	-0.0304874
159	4.86517	-0.0305986
160	4.91383	-0.0307114
161	4.96296	-0.0308259
162	5.01259	-0.0309419
163	5.06272	-0.0310596
164	5.11335	-0.0311789
165	5.16448	-0.0312999
166	5.21613	-0.0314224
167	5.26829	-0.0315466

168	5.32097	-0.0316724
169	5.37418	-0.0317999
170	5.42792	-0.0319289
171	5.4822	-0.0320597
172	5.53702	-0.032192
173	5.59239	-0.032326
174	5.64832	-0.0324616
175	5.7048	-0.0325989
176	5.76185	-0.0327378
177	5.81947	-0.0328783
178	5.87766	-0.0330206
179	5.93644	-0.0331645
180	5.9958	-0.03331
181	6.05576	-0.0334572
182	6.11632	-0.0336061
183	6.17748	-0.0337567
184	6.23926	-0.033909
185	6.30165	-0.034063
186	6.36466	-0.0342186
187	6.42831	-0.034376
188	6.49259	-0.0345351
189	6.55752	-0.0346959
190	6.6231	-0.0348584
191	6.68933	-0.0350227
192	6.75622	-0.0351886
193	6.82378	-0.0353564
194	6.89202	-0.0355259
195	6.96094	-0.0356971
196	7.03055	-0.0358701
197	7.10085	-0.0360449
198	7.17186	-0.0362215
199	7.24358	-0.0363999
200	7.31602	-0.0365801
201	7.38918	-0.0367621
202	7.46307	-0.0369459
203	7.5377	-0.0371315
204	7.61308	-0.037319
205	7.68921	-0.0375083
206	7.7661	-0.0376995
207	7.84376	-0.0378926
208	7.9222	-0.0380875
209	8.00142	0.
210	8.08144	0.

```
Table[{n, 1.01^n, (-1)^(n+1)/n tk2[8, n, 1.01],
tk2s2[8, n, n-3, 1.01],
tk2s2[8, n, n-2, 1.01],
tk2s2[8, n, n-1, 1.01],
tk2s2[8, n, n, 1.01]}, {n, 1, 210}] // TableForm
```

1	1.01	-0.07	0	0	7	7
2	1.0201	-1.5708	0	5	9	16
3	1.0303	-0.0716093	1	3	12	28
4	1.0406	-0.322428	0	3	15	43
5	1.05101	-0.273256	0	3	18	61
6	1.06152	-0.240761	0	3	21	82

7	1.07214	-0.217799	0	3	24	106
8	1.08286	-0.2008	0	3	27	133
9	1.09369	-0.187779	0	3	30	163
10	1.10462	-0.177545	0	3	33	196
11	1.11567	-0.169342	0	3	36	232
12	1.12683	-0.162665	0	3	39	271
13	1.13809	-0.157163	0	3	42	313
14	1.14947	0.996886	0	3	45	344
15	1.16097	-0.137262	0	3	47	391
16	1.17258	-0.133921	0	3	50	441
17	1.1843	-0.13108	0	3	53	494
18	1.19615	-0.128658	0	3	56	550
19	1.20811	-0.12659	0	3	59	609
20	1.22019	-0.124824	0	3	62	671
21	1.23239	-0.123319	0	3	65	736
22	1.24472	-0.122041	0	3	68	804
23	1.25716	-0.120962	0	3	71	875
24	1.26973	-0.120058	0	3	74	949
25	1.28243	-0.11931	0	3	77	1026
26	1.29526	-0.118701	0	3	80	1106
27	1.30821	-0.118216	0	3	83	1189
28	1.32129	-0.117845	0	3	86	1275
29	1.3345	38.583	0	3	89	523
30	1.34785	-38.4177	0	3	33	556
31	1.36133	-0.0998295	0	1	34	590
32	1.37494	-0.0995092	0	1	35	625
33	1.38869	-0.0992573	0	1	36	661
34	1.40258	-0.0990685	0	1	37	698
35	1.4166	-0.0989382	0	1	38	736
36	1.43077	-0.0988622	0	1	39	775
37	1.44508	-0.0988368	0	1	40	815
38	1.45953	-0.0988586	0	1	41	856
39	1.47412	-0.0989247	0	1	42	898
40	1.48886	-0.0990326	0	1	43	941
41	1.50375	-0.0991797	0	1	44	985
42	1.51879	-0.0993639	0	1	45	1030
43	1.53398	-0.0995834	0	1	46	1076
44	1.54932	-0.0998363	0	1	47	1123
45	1.56481	-0.100121	0	1	48	1171
46	1.58046	-0.100436	0	1	49	1220
47	1.59626	-0.10078	0	1	50	1270
48	1.61223	1.51107	0	1	51	1273
49	1.62835	-0.0854294	0	1	51	1324
50	1.64463	-0.085693	0	1	52	1376
51	1.66108	-0.08598	0	1	53	1429
52	1.67769	-0.0862894	0	1	54	1483
53	1.69447	-0.0866205	0	1	55	1538
54	1.71141	-0.0869726	0	1	56	1594
55	1.72852	-0.0873451	0	1	57	1651
56	1.74581	-0.0877373	0	1	58	1709
57	1.76327	-0.0881487	0	1	59	1768
58	1.7809	-0.0885788	0	1	60	1828
59	1.79871	-0.0890271	0	1	61	1889
60	1.8167	-0.0894932	0	1	62	1951
61	1.83486	-0.0899768	0	1	63	2014
62	1.85321	-0.0904774	0	1	64	2078



63	1.87174	-0.0909947	0	1	65	2143
64	1.89046	-0.0915284	0	1	66	2209
65	1.90937	-0.0920783	0	1	67	2276
66	1.92846	-0.0926441	0	1	68	2344
67	1.94774	-0.0932255	0	1	69	2413
68	1.96722	-0.0938224	0	1	70	2483
69	1.98689	-0.0944346	0	1	71	2554
70	2.00676	71.145	0	1	72	141
71	2.02683	-69.61	0	1	2	143
72	2.0471	-0.0689686	0	0	2	145
73	2.06757	-0.0692649	0	0	2	147
74	2.08825	-0.0695709	0	0	2	149
75	2.10913	-0.0698866	0	0	2	151
76	2.13022	-0.0702118	0	0	2	153
77	2.15152	-0.0705462	0	0	2	155
78	2.17304	-0.0708899	0	0	2	157
79	2.19477	-0.0712426	0	0	2	159
80	2.21672	-0.0716043	0	0	2	161
81	2.23888	-0.0719748	0	0	2	163
82	2.26127	-0.0723541	0	0	2	165
83	2.28388	-0.0727421	0	0	2	167
84	2.30672	-0.0731387	0	0	2	169
85	2.32979	-0.0735437	0	0	2	171
86	2.35309	-0.0739573	0	0	2	173
87	2.37662	-0.0743792	0	0	2	175
88	2.40038	-0.0748095	0	0	2	177
89	2.42439	-0.075248	0	0	2	179
90	2.44863	-0.0756948	0	0	2	181
91	2.47312	-0.0761498	0	0	2	183
92	2.49785	-0.0766129	0	0	2	185
93	2.52283	-0.0770842	0	0	2	187
94	2.54806	-0.0775636	0	0	2	189
95	2.57354	-0.078051	0	0	2	191
96	2.59927	-0.0785465	0	0	2	193
97	2.62527	-0.0790501	0	0	2	195
98	2.65152	-0.0795616	0	0	2	197
99	2.67803	2.59795	0	0	2	100
100	2.70481	-0.0538285	0	0	1	101
101	2.73186	-0.0540963	0	0	1	102
102	2.75918	-0.0543694	0	0	1	103
103	2.78677	-0.0546478	0	0	1	104
104	2.81464	-0.0549316	0	0	1	105
105	2.84279	-0.0552206	0	0	1	106
106	2.87121	-0.0555148	0	0	1	107
107	2.89993	-0.0558143	0	0	1	108
108	2.92893	-0.0561189	0	0	1	109
109	2.95822	-0.0564288	0	0	1	110
110	2.9878	-0.0567439	0	0	1	111
111	3.01768	-0.0570642	0	0	1	112
112	3.04785	-0.0573897	0	0	1	113
113	3.07833	-0.0577204	0	0	1	114
114	3.10911	-0.0580562	0	0	1	115
115	3.1402	-0.0583973	0	0	1	116
116	3.17161	-0.0587435	0	0	1	117
117	3.20332	-0.0590949	0	0	1	118
118	3.23536	-0.0594515	0	0	1	119

119	3.26771	-0.0598133	0	0	1	120
120	3.30039	-0.0601803	0	0	1	121
121	3.33339	-0.0605526	0	0	1	122
122	3.36672	-0.06093	0	0	1	123
123	3.40039	-0.0613127	0	0	1	124
124	3.4344	-0.0617007	0	0	1	125
125	3.46874	-0.0620939	0	0	1	126
126	3.50343	-0.0624924	0	0	1	127
127	3.53846	-0.0628962	0	0	1	128
128	3.57385	-0.0633053	0	0	1	129
129	3.60958	-0.0637197	0	0	1	130
130	3.64568	-0.0641395	0	0	1	131
131	3.68214	-0.0645647	0	0	1	132
132	3.71896	-0.0649953	0	0	1	133
133	3.75615	-0.0654313	0	0	1	134
134	3.79371	-0.0658727	0	0	1	135
135	3.83165	-0.0663197	0	0	1	136
136	3.86996	-0.0667721	0	0	1	137
137	3.90866	-0.06723	0	0	1	138
138	3.94775	-0.0676935	0	0	1	139
139	3.98723	-0.0681626	0	0	1	140
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142	4.10804	-0.0289299	0	0	0	1
143	4.14912	-0.0290149	0	0	0	1
144	4.19062	-0.0291015	0	0	0	1
145	4.23252	-0.0291898	0	0	0	1
146	4.27485	-0.0292798	0	0	0	1
147	4.3176	-0.0293714	0	0	0	1
148	4.36077	-0.0294647	0	0	0	1
149	4.40438	-0.0295596	0	0	0	1
150	4.44842	-0.0296562	0	0	0	1
151	4.49291	-0.0297544	0	0	0	1
152	4.53784	-0.0298542	0	0	0	1
153	4.58321	-0.0299557	0	0	0	1
154	4.62905	-0.0300587	0	0	0	1
155	4.67534	-0.0301635	0	0	0	1
156	4.72209	-0.0302698	0	0	0	1
157	4.76931	-0.0303778	0	0	0	1
158	4.817	-0.0304874	0	0	0	1
159	4.86517	-0.0305986	0	0	0	1
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161	4.96296	-0.0308259	0	0	0	1
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166	5.21613	-0.0314224	0	0	0	1
167	5.26829	-0.0315466	0	0	0	1
168	5.32097	-0.0316724	0	0	0	1
169	5.37418	-0.0317999	0	0	0	1
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171	5.4822	-0.0320597	0	0	0	1
172	5.53702	-0.032192	0	0	0	1
173	5.59239	-0.032326	0	0	0	1
174	5.64832	-0.0324616	0	0	0	1

175	5.7048	-0.0325989	0	0	0	1
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183	6.17748	-0.0337567	0	0	0	1
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193	6.82378	-0.0353564	0	0	0	1
194	6.89202	-0.0355259	0	0	0	1
195	6.96094	-0.0356971	0	0	0	1
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199	7.24358	-0.0363999	0	0	0	1
200	7.31602	-0.0365801	0	0	0	1
201	7.38918	-0.0367621	0	0	0	1
202	7.46307	-0.0369459	0	0	0	1
203	7.5377	-0.0371315	0	0	0	1
204	7.61308	-0.037319	0	0	0	1
205	7.68921	-0.0375083	0	0	0	1
206	7.7661	-0.0376995	0	0	0	1
207	7.84376	-0.0378926	0	0	0	1
208	7.9222	-0.0380875	0	0	0	1
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210	8.08144	0.	0	0	0	0

```
Table[{n,
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  tk2s2[8, n, n - 1, 1.002] - tk2s2[8, n - 1, n - 2, 1.002],
  tk2s2[8, n, n, 1.002] - tk2s2[8, n - 1, n - 1, 1.002]}, {n, 1, 610}] // TableForm
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```

st[n_, a_] := If[tk2[a, n, 1.01] ≠ 0, (-1)^(n+1) / n tk2[a, n, 1.01] + 1/n, 0]
Table[{n, 1.01^n, st[n, 2], st[n, 3], st[n, 4], st[n, 5], st[n, 6], st[n, 7], st[n, 8]},
      {n, 1, 210}] // TableForm

```

1	1.01	0.99	0.98	0.97	0.96	0.95	0.94
2	1.0201	-0.01005	-0.02015	-0.53025	-0.0404	-1.0505	-0.0
3	1.0303	-0.0101003	-0.0203013	-0.0305023	-0.0408043	-0.0510053	-0.0
4	1.0406	-0.010151	-0.020454	-0.030757	-0.041213	-0.0515161	-0.0
5	1.05101	-0.010202	-0.0206081	-0.0310141	-0.0416262	-0.0520322	-0.0
6	1.06152	-0.0102534	-0.0207635	-0.0312736	-0.0420438	-0.0525539	-0.0
7	1.07214	-0.0103051	-0.0209203	-0.0315355	-0.042466	-0.0530812	-0.0
8	1.08286	-0.0103571	-0.0210784	-0.0317998	-0.0428927	-0.053614	-0.0
9	1.09369	-0.0104095	-0.021238	-0.0320666	-0.043324	-0.0541526	-0.0
10	1.10462	-0.0104622	-0.0213991	-0.0323359	-0.0437601	-0.0546969	-0.0
11	1.11567	-0.0105153	-0.0215615	-0.0326077	-0.0442008	-0.055247	-0.0
12	1.12683	-0.0105688	-0.0217254	-0.0328821	-0.0446463	-0.055803	-0.0
13	1.13809	-0.0106226	-0.0218908	-0.0331591	-0.0450967	-0.056365	-0.0
14	1.14947	-0.0106767	-0.0220577	-0.0334386	-0.045552	-0.0569329	-0.0
15	1.16097	-0.0107313	-0.022226	-0.0337207	-0.0460122	-0.0575069	-0.0

16	1.17258	-0.0107862	-0.0223959	-0.0340055	-0.0464773	-0.058087	18.61
17	1.1843	-0.0108414	-0.0225672	-0.034293	-0.0469476	-0.0586734	-18.
18	1.19615	-0.0108971	-0.0227401	-0.0345832	-0.0474229	-0.059266	-0.0
19	1.20811	-0.0109531	-0.0229146	-0.0348761	-0.0479034	1.14824	-0.0
20	1.22019	-0.0110095	-0.0230906	-0.0351717	-0.0483891	-0.0483891	-0.0
21	1.23239	-0.0110663	-0.0232682	-0.0354701	-0.0488801	-0.0488801	-0.0
22	1.24472	-0.0111234	-0.0234474	-0.0357713	-0.0493764	-0.0493764	-0.0
23	1.25716	-0.011181	-0.0236282	-0.0360753	15.0361	-0.0498781	-0.0
24	1.26973	-0.0112389	-0.0238106	-0.0363822	-14.3506	-0.0503853	-0.0
25	1.28243	-0.0112973	-0.0239946	-0.036692	-0.036692	-0.0508979	-0.0
26	1.29526	-0.011356	-0.0241803	-0.0370047	-0.0370047	-0.0514161	-0.0
27	1.30821	-0.0114151	-0.0243677	-0.0373203	-0.0373203	-0.05194	-0.0
28	1.32129	-0.0114747	-0.0245568	-0.0376389	-0.0376389	-0.0524695	-0.0
29	1.3345	-0.0115346	-0.0247475	1.29654	-0.0379604	-0.0530048	-0.0
30	1.34785	-0.011595	-0.02494	-0.02494	-0.038285	-0.053546	-0.0
31	1.36133	-0.0116557	-0.0251342	-0.0251342	-0.0386127	-0.0540929	-0.0
32	1.37494	-0.0117169	-0.0253302	-0.0253302	-0.0389434	-0.0546459	-0.0
33	1.38869	-0.0117785	-0.0255279	-0.0255279	-0.0392773	-0.0552048	-0.0
34	1.40258	-0.0118405	-0.0257274	-0.0257274	-0.0396143	-0.0557699	1.33
35	1.4166	-0.0119029	-0.0259287	-0.0259287	-0.0399545	-0.056341	-0.0
36	1.43077	-0.0119658	-0.0261318	-0.0261318	-0.0402979	-0.0569184	-0.0
37	1.44508	-0.0120291	-0.0263368	-0.0263368	-0.0406445	-0.057502	-0.0
38	1.45953	-0.0120928	-0.0265436	-0.0265436	-0.0409944	-0.058092	-0.0
39	1.47412	-0.012157	-0.0267523	-0.0267523	-0.0413475	-0.0586884	-0.0
40	1.48886	-0.0122216	-0.0269628	-0.0269628	-0.041704	-0.0592913	-0.0
41	1.50375	-0.0122866	1.47658	-0.0271753	-0.0420639	31.5189	-0.0
42	1.51879	-0.0123521	-0.0123521	-0.0273897	-0.0424272	-30.5641	-0.0
43	1.53398	-0.0124181	-0.0124181	-0.027606	-0.0427939	-0.0427939	-0.0
44	1.54932	-0.0124845	-0.0124845	-0.0278243	-0.043164	-0.043164	-0.0
45	1.56481	-0.0125513	-0.0125513	-0.0280445	-0.0435377	-0.0435377	-0.0
46	1.58046	-0.0126187	-0.0126187	-0.0282668	-0.0439149	-0.0439149	-0.0
47	1.59626	-0.0126865	-0.0126865	-0.028491	-0.0442956	-0.0442956	-0.0
48	1.61223	-0.0127547	-0.0127547	-0.0287173	-0.04468	-0.04468	-0.0
49	1.62835	-0.0128234	-0.0128234	-0.0289457	-0.045068	-0.045068	-0.0
50	1.64463	-0.0128926	-0.0128926	-0.0291761	-0.0454596	-0.0454596	-0.0
51	1.66108	-0.0129623	-0.0129623	-0.0294086	-0.045855	-0.045855	-0.0
52	1.67769	-0.0130325	-0.0130325	-0.0296433	1.63143	-0.046254	-0.0
53	1.69447	-0.0131031	-0.0131031	-0.02988	-0.02988	-0.0466569	-0.0
54	1.71141	-0.0131743	-0.0131743	-0.0301189	-0.0301189	-0.0470636	-0.0
55	1.72852	-0.0132459	-0.0132459	-0.03036	-0.03036	-0.0474741	-0.0
56	1.74581	-0.013318	-0.013318	-0.0306033	-0.0306033	-0.0478885	-0.0
57	1.76327	-0.0133907	-0.0133907	-0.0308488	-0.0308488	-0.0483069	51.01
58	1.7809	-0.0134638	-0.0134638	-0.0310965	-0.0310965	-0.0487292	-49.
59	1.79871	-0.0135375	-0.0135375	-0.0313465	-0.0313465	-0.0491555	-0.0
60	1.8167	-0.0136116	-0.0136116	-0.0315987	-0.0315987	-0.0495858	-0.0
61	1.83486	-0.0136863	-0.0136863	-0.0318533	-0.0318533	-0.0500202	-0.0
62	1.85321	-0.0137615	-0.0137615	-0.0321101	-0.0321101	-0.0504588	-0.0
63	1.87174	-0.0138372	-0.0138372	-0.0323693	-0.0323693	-0.0509015	-0.0
64	1.89046	-0.0139135	-0.0139135	-0.0326309	-0.0326309	-0.0513484	-0.0
65	1.90937	-0.0139903	-0.0139903	-0.0328949	-0.0328949	-0.0517995	-0.0
66	1.92846	-0.0140676	-0.0140676	-0.0331612	-0.0331612	-0.0522549	-0.0
67	1.94774	-0.0141454	-0.0141454	-0.03343	-0.03343	-0.0527146	-0.0
68	1.96722	-0.0142239	-0.0142239	-0.0337013	-0.0337013	-0.0531788	-0.0
69	1.98689	-0.0143028	-0.0143028	-0.033975	-0.033975	-0.0536473	-0.0
70	2.00676	0	-0.0143823	1.97251	-0.0342513	1.95264	-0.0
71	2.02683	0	-0.0144624	-0.0144624	-0.03453	-0.03453	-0.0

72	2.0471	0	-0.014543	-0.014543	-0.0348114	-0.0348114	-0.0
73	2.06757	0	-0.0146243	-0.0146243	-0.0350952	-0.0350952	-0.0
74	2.08825	0	-0.014706	-0.014706	-0.0353817	-0.0353817	-0.0
75	2.10913	0	-0.0147884	-0.0147884	-0.0356708	-0.0356708	-0.0
76	2.13022	0	-0.0148713	-0.0148713	-0.0359626	-0.0359626	-0.0
77	2.15152	0	-0.0149548	-0.0149548	-0.036257	-0.036257	-0.0
78	2.17304	0	-0.0150389	-0.0150389	-0.0365542	-0.0365542	-0.0
79	2.19477	0	-0.0151236	-0.0151236	-0.036854	-0.036854	-0.0
80	2.21672	0	-0.0152089	-0.0152089	-0.0371566	-0.0371566	-0.0
81	2.23888	0	-0.0152948	-0.0152948	-0.037462	-0.037462	-0.0
82	2.26127	0	-0.0153814	-0.0153814	-0.0377702	-0.0377702	-0.0
83	2.28388	0	-0.0154685	-0.0154685	-0.0380812	-0.0380812	-0.0
84	2.30672	0	-0.0155562	-0.0155562	-0.0383951	-0.0383951	-0.0
85	2.32979	0	-0.0156446	-0.0156446	-0.0387118	-0.0387118	-0.0
86	2.35309	0	-0.0157336	-0.0157336	-0.0390315	-0.0390315	2.29
87	2.37662	0	-0.0158232	-0.0158232	-0.0393541	-0.0393541	-0.0
88	2.40038	0	-0.0159135	-0.0159135	-0.0396797	-0.0396797	-0.0
89	2.42439	0	-0.0160044	-0.0160044	-0.0400082	-0.0400082	-0.0
90	2.44863	0	-0.0160959	-0.0160959	-0.0403398	-0.0403398	-0.0
91	2.47312	0	-0.0161881	-0.0161881	-0.0406744	-0.0406744	-0.0
92	2.49785	0	-0.016281	-0.016281	-0.0410122	-0.0410122	-0.0
93	2.52283	0	-0.0163745	-0.0163745	2.48148	-0.041353	-0.0
94	2.54806	0	-0.0164687	-0.0164687	-0.0164687	-0.041697	-0.0
95	2.57354	0	-0.0165636	-0.0165636	-0.0165636	-0.0420441	-0.0
96	2.59927	0	-0.0166591	-0.0166591	-0.0166591	-0.0423945	-0.0
97	2.62527	0	-0.0167553	-0.0167553	-0.0167553	-0.042748	-0.0
98	2.65152	0	-0.0168522	-0.0168522	-0.0168522	-0.0431049	-0.0
99	2.67803	0	-0.0169498	-0.0169498	-0.0169498	-0.043465	-0.0
100	2.70481	0	-0.0170481	-0.0170481	-0.0170481	-0.0438285	-0.0
101	2.73186	0	-0.0171471	-0.0171471	-0.0171471	-0.0441953	-0.0
102	2.75918	0	-0.0172469	-0.0172469	-0.0172469	-0.0445655	-0.0
103	2.78677	0	-0.0173473	-0.0173473	-0.0173473	-0.0449391	-0.0
104	2.81464	0	-0.0174485	-0.0174485	-0.0174485	-0.0453162	-0.0
105	2.84279	0	-0.0175503	-0.0175503	-0.0175503	-0.0456967	-0.0
106	2.87121	0	-0.017653	-0.017653	-0.017653	-0.0460808	-0.0
107	2.89993	0	-0.0177563	-0.0177563	-0.0177563	-0.0464685	-0.0
108	2.92893	0	-0.0178604	-0.0178604	-0.0178604	-0.0468597	-0.0
109	2.95822	0	-0.0179653	-0.0179653	-0.0179653	-0.0472545	-0.0
110	2.9878	0	-0.0180709	-0.0180709	-0.0180709	-0.047653	-0.0
111	3.01768	0	0	-0.0181773	-0.0181773	2.96962	-0.0
112	3.04785	0	0	-0.0182844	-0.0182844	-0.0182844	-0.0
113	3.07833	0	0	-0.0183923	-0.0183923	-0.0183923	-0.0
114	3.10911	0	0	-0.018501	-0.018501	-0.018501	-0.0
115	3.1402	0	0	-0.0186105	-0.0186105	-0.0186105	-0.0
116	3.17161	0	0	-0.0187207	-0.0187207	-0.0187207	-0.0
117	3.20332	0	0	-0.0188318	-0.0188318	-0.0188318	-0.0
118	3.23536	0	0	-0.0189437	-0.0189437	-0.0189437	-0.0
119	3.26771	0	0	-0.0190564	-0.0190564	-0.0190564	-0.0
120	3.30039	0	0	-0.0191699	-0.0191699	-0.0191699	-0.0
121	3.33339	0	0	-0.0192842	-0.0192842	-0.0192842	-0.0
122	3.36672	0	0	-0.0193994	-0.0193994	-0.0193994	-0.0
123	3.40039	0	0	-0.0195154	-0.0195154	-0.0195154	-0.0
124	3.4344	0	0	-0.0196322	-0.0196322	-0.0196322	-0.0
125	3.46874	0	0	-0.0197499	-0.0197499	-0.0197499	-0.0
126	3.50343	0	0	-0.0198685	-0.0198685	-0.0198685	3.44
127	3.53846	0	0	-0.0199879	-0.0199879	-0.0199879	-0.0



128	3.57385	0	0	-0.0201082	-0.0201082	-0.0201082	-0.0
129	3.60958	0	0	-0.0202293	-0.0202293	-0.0202293	-0.0
130	3.64568	0	0	-0.0203514	-0.0203514	-0.0203514	-0.0
131	3.68214	0	0	-0.0204743	-0.0204743	-0.0204743	-0.0
132	3.71896	0	0	-0.0205982	-0.0205982	-0.0205982	-0.0
133	3.75615	0	0	-0.0207229	-0.0207229	-0.0207229	-0.0
134	3.79371	0	0	-0.0208486	-0.0208486	-0.0208486	-0.0
135	3.83165	0	0	-0.0209752	-0.0209752	-0.0209752	-0.0
136	3.86996	0	0	-0.0211027	-0.0211027	-0.0211027	-0.0
137	3.90866	0	0	-0.0212311	-0.0212311	-0.0212311	-0.0
138	3.94775	0	0	-0.0213605	-0.0213605	-0.0213605	-0.0
139	3.98723	0	0	-0.0214908	-0.0214908	-0.0214908	-0.0
140	4.0271	0	0	0	-0.0216221	-0.0216221	-0.0
141	4.06737	0	0	0	-0.0217544	-0.0217544	-0.0
142	4.10804	0	0	0	-0.0218876	-0.0218876	-0.0
143	4.14912	0	0	0	-0.0220218	-0.0220218	-0.0
144	4.19062	0	0	0	-0.0221571	-0.0221571	-0.0
145	4.23252	0	0	0	-0.0222933	-0.0222933	-0.0
146	4.27485	0	0	0	-0.0224305	-0.0224305	-0.0
147	4.3176	0	0	0	-0.0225687	-0.0225687	-0.0
148	4.36077	0	0	0	-0.0227079	-0.0227079	-0.0
149	4.40438	0	0	0	-0.0228482	-0.0228482	-0.0
150	4.44842	0	0	0	-0.0229895	-0.0229895	-0.0
151	4.49291	0	0	0	-0.0231318	-0.0231318	-0.0
152	4.53784	0	0	0	-0.0232752	-0.0232752	-0.0
153	4.58321	0	0	0	-0.0234197	-0.0234197	-0.0
154	4.62905	0	0	0	-0.0235652	-0.0235652	-0.0
155	4.67534	0	0	0	-0.0237119	-0.0237119	-0.0
156	4.72209	0	0	0	-0.0238596	-0.0238596	-0.0
157	4.76931	0	0	0	-0.0240084	-0.0240084	-0.0
158	4.817	0	0	0	-0.0241583	-0.0241583	-0.0
159	4.86517	0	0	0	-0.0243093	-0.0243093	-0.0
160	4.91383	0	0	0	-0.0244614	-0.0244614	-0.0
161	4.96296	0	0	0	-0.0246147	-0.0246147	-0.0
162	5.01259	0	0	0	0	-0.0247691	-0.0
163	5.06272	0	0	0	0	-0.0249247	-0.0
164	5.11335	0	0	0	0	-0.0250814	-0.0
165	5.16448	0	0	0	0	-0.0252393	-0.0
166	5.21613	0	0	0	0	-0.0253983	-0.0
167	5.26829	0	0	0	0	-0.0255586	-0.0
168	5.32097	0	0	0	0	-0.0257201	-0.0
169	5.37418	0	0	0	0	-0.0258827	-0.0
170	5.42792	0	0	0	0	-0.0260466	-0.0
171	5.4822	0	0	0	0	-0.0262117	-0.0
172	5.53702	0	0	0	0	-0.026378	-0.0
173	5.59239	0	0	0	0	-0.0265456	-0.0
174	5.64832	0	0	0	0	-0.0267145	-0.0
175	5.7048	0	0	0	0	-0.0268846	-0.0
176	5.76185	0	0	0	0	-0.027056	-0.0
177	5.81947	0	0	0	0	-0.0272286	-0.0
178	5.87766	0	0	0	0	-0.0274026	-0.0
179	5.93644	0	0	0	0	-0.0275779	-0.0
180	5.9958	0	0	0	0	-0.0277545	-0.0
181	6.05576	0	0	0	0	0	-0.0
182	6.11632	0	0	0	0	0	-0.0
183	6.17748	0	0	0	0	0	-0.0

184	6.23926	0	0	0	0	0	-0.0
185	6.30165	0	0	0	0	0	-0.0
186	6.36466	0	0	0	0	0	-0.0
187	6.42831	0	0	0	0	0	-0.0
188	6.49259	0	0	0	0	0	-0.0
189	6.55752	0	0	0	0	0	-0.0
190	6.6231	0	0	0	0	0	-0.0
191	6.68933	0	0	0	0	0	-0.0
192	6.75622	0	0	0	0	0	-0.0
193	6.82378	0	0	0	0	0	-0.0
194	6.89202	0	0	0	0	0	-0.0
195	6.96094	0	0	0	0	0	-0.0
196	7.03055	0	0	0	0	0	0
197	7.10085	0	0	0	0	0	0
198	7.17186	0	0	0	0	0	0
199	7.24358	0	0	0	0	0	0
200	7.31602	0	0	0	0	0	0
201	7.38918	0	0	0	0	0	0
202	7.46307	0	0	0	0	0	0
203	7.5377	0	0	0	0	0	0
204	7.61308	0	0	0	0	0	0
205	7.68921	0	0	0	0	0	0
206	7.7661	0	0	0	0	0	0
207	7.84376	0	0	0	0	0	0
208	7.9222	0	0	0	0	0	0
209	8.00142	0	0	0	0	0	0
210	8.08144	0	0	0	0	0	0

```
st[n_, a_] := If[tk2[a, n, 1.02] ≠ 0, (-1)^(n+1) / n tk2[a, n, 1.02] + 1 / n, 0]
```

```
Table[{n, 1.02^n, st[n, 2], st[n, 3], st[n, 4], st[n, 5], st[n, 6], st[n, 7], st[n, 8]},  
{n, 1, 210}] // TableForm
```

1	1.02	0.98	0.96	0.94	0.92	0.9	0.88
2	1.0404	-0.0202	-0.0406	-0.561	-0.0816	-1.102	-0.1
3	1.06121	-0.0204027	-0.0412107	-0.0620187	-0.0832347	-0.104043	-0.1
4	1.08243	-0.020608	-0.0418322	-0.0630564	-0.0849048	-0.106129	-0.1
5	1.10408	-0.0208162	-0.0424648	-0.0641134	-0.0866111	-0.10826	-0.1
6	1.12616	-0.0210271	-0.0431087	-0.0651903	-0.0883544	-0.110436	-0.1
7	1.14869	-0.0212408	-0.0437641	-0.0662873	-0.0901355	-0.112659	-0.1
8	1.17166	-0.0214574	-0.0444311	-0.0674048	-0.0919552	-0.114929	9.23
9	1.19509	-0.021677	-0.0451101	-0.0685433	-0.0938144	-0.117248	-9.3
10	1.21899	-0.0218994	-0.0458013	-0.0697031	-0.095714	1.09938	-0.1
11	1.24337	-0.0221249	-0.0465048	-0.0708847	-0.0976548	-0.0976548	-0.1
12	1.26824	-0.0223535	-0.047221	-0.0720885	8.14393	-0.0996377	-0.1
13	1.29361	-0.0225851	-0.04795	-0.0733148	-7.53356	-0.101664	-0.1
14	1.31948	-0.0228199	-0.048692	-0.0745642	-0.0745642	-0.103734	-0.1
15	1.34587	-0.0230579	-0.0494475	1.27003	-0.075837	-0.105849	-0.1
16	1.37279	-0.0232991	-0.0502165	-0.0502165	-0.0771338	-0.10801	-0.1
17	1.40024	-0.0235436	-0.0509993	-0.0509993	-0.078455	-0.110218	1.26
18	1.42825	-0.0237915	-0.0517963	-0.0517963	-0.0798011	-0.112473	-0.1
19	1.45681	-0.0240427	-0.0526076	-0.0526076	-0.0811725	-0.114778	-0.1
20	1.48595	-0.0242974	-0.0534336	-0.0534336	-0.0825698	-0.117133	-0.1
21	1.51567	-0.0245555	1.46139	-0.0542745	-0.0839934	16.5528	-0.1
22	1.54598	-0.0248173	-0.0248173	-0.0551306	-0.0854439	-15.6879	-0.1
23	1.5769	-0.0250826	-0.0250826	-0.0560022	-0.0869218	-0.0869218	-0.1
24	1.60844	-0.0253516	-0.0253516	-0.0568895	-0.0884275	-0.0884275	-0.1
25	1.64061	-0.0256242	-0.0256242	-0.057793	-0.0899617	-0.0899617	-0.1

26	1.67342	-0.0259007	-0.0259007	-0.0587128	1.58189	-0.0915249	-0.1
27	1.70689	-0.026181	-0.026181	-0.0596493	-0.0596493	-0.0931177	-0.1
28	1.74102	-0.0264652	-0.0264652	-0.0606029	-0.0606029	-0.0947406	-0.1
29	1.77584	-0.0267533	-0.0267533	-0.0615737	-0.0615737	-0.0963942	26.4
30	1.81136	-0.0270454	-0.0270454	-0.0625623	-0.0625623	-0.0980792	-25.
31	1.84759	-0.0273416	-0.0273416	-0.0635688	-0.0635688	-0.099796	-0.0
32	1.88454	-0.0276419	-0.0276419	-0.0645937	-0.0645937	-0.101545	-0.1
33	1.92223	-0.0279464	-0.0279464	-0.0656372	-0.0656372	-0.103328	-0.1
34	1.96068	-0.0282552	-0.0282552	-0.0666998	-0.0666998	-0.105144	-0.1
35	1.99989	-0.0285683	-0.0285683	-0.0677818	-0.0677818	-0.106995	-0.1
36	2.03989	0	-0.0288858	1.971	-0.0688836	1.93101	-0.1
37	2.08069	0	-0.0292077	-0.0292077	-0.0700055	-0.0700055	-0.1
38	2.1223	0	-0.0295342	-0.0295342	-0.0711479	-0.0711479	-0.1
39	2.16474	0	-0.0298653	-0.0298653	-0.0723112	-0.0723112	-0.1
40	2.20804	0	-0.030201	-0.030201	-0.0734959	-0.0734959	-0.1
41	2.2522	0	-0.0305415	-0.0305415	-0.0747023	-0.0747023	-0.1
42	2.29724	0	-0.0308868	-0.0308868	-0.0759308	-0.0759308	-0.1
43	2.34319	0	-0.031237	-0.031237	-0.0771819	-0.0771819	2.22
44	2.39005	0	-0.0315921	-0.0315921	-0.0784559	-0.0784559	-0.0
45	2.43785	0	-0.0319523	-0.0319523	-0.0797534	-0.0797534	-0.0
46	2.48661	0	-0.0323176	-0.0323176	-0.0810747	-0.0810747	-0.0
47	2.53634	0	-0.0326882	-0.0326882	2.45392	-0.0824204	-0.0
48	2.58707	0	-0.033064	-0.033064	-0.033064	-0.0837908	-0.0
49	2.63881	0	-0.0334451	-0.0334451	-0.0334451	-0.0851865	-0.0
50	2.69159	0	-0.0338318	-0.0338318	-0.0338318	-0.086608	-0.0
51	2.74542	0	-0.0342239	-0.0342239	-0.0342239	-0.0880557	-0.0
52	2.80033	0	-0.0346217	-0.0346217	-0.0346217	-0.0895301	-0.0
53	2.85633	0	-0.0350252	-0.0350252	-0.0350252	-0.0910317	-0.0
54	2.91346	0	-0.0354345	-0.0354345	-0.0354345	-0.0925612	-0.0
55	2.97173	0	-0.0358496	-0.0358496	-0.0358496	-0.0941189	-0.0
56	3.03117	0	0	-0.0362708	-0.0362708	2.93546	-0.0
57	3.09179	0	0	-0.036698	-0.036698	-0.036698	-0.0
58	3.15362	0	0	-0.0371315	-0.0371315	-0.0371315	-0.0
59	3.2167	0	0	-0.0375711	-0.0375711	-0.0375711	-0.1
60	3.28103	0	0	-0.0380172	-0.0380172	-0.0380172	-0.1
61	3.34665	0	0	-0.0384697	-0.0384697	-0.0384697	-0.1
62	3.41358	0	0	-0.0389288	-0.0389288	-0.0389288	-0.1
63	3.48186	0	0	-0.0393945	-0.0393945	-0.0393945	-0.1
64	3.55149	0	0	-0.0398671	-0.0398671	-0.0398671	3.44
65	3.62252	0	0	-0.0403465	-0.0403465	-0.0403465	-0.0
66	3.69497	0	0	-0.0408329	-0.0408329	-0.0408329	-0.0
67	3.76887	0	0	-0.0413265	-0.0413265	-0.0413265	-0.0
68	3.84425	0	0	-0.0418272	-0.0418272	-0.0418272	-0.0
69	3.92114	0	0	-0.0423353	-0.0423353	-0.0423353	-0.0
70	3.99956	0	0	-0.0428508	-0.0428508	-0.0428508	-0.0
71	4.07955	0	0	0	-0.0433739	-0.0433739	-0.0
72	4.16114	0	0	0	-0.0439047	-0.0439047	-0.0
73	4.24436	0	0	0	-0.0444433	-0.0444433	-0.0
74	4.32925	0	0	0	-0.0449899	-0.0449899	-0.0
75	4.41584	0	0	0	-0.0455445	-0.0455445	-0.0
76	4.50415	0	0	0	-0.0461073	-0.0461073	-0.0
77	4.59424	0	0	0	-0.0466784	-0.0466784	-0.0
78	4.68612	0	0	0	-0.0472579	-0.0472579	-0.0
79	4.77984	0	0	0	-0.0478461	-0.0478461	-0.0
80	4.87544	0	0	0	-0.048443	-0.048443	-0.0
81	4.97295	0	0	0	-0.0490487	-0.0490487	-0.0

82	5.07241	0	0	0	0	-0.0496635	-0.0
83	5.17386	0	0	0	0	-0.0502874	-0.0
84	5.27733	0	0	0	0	-0.0509206	-0.0
85	5.38288	0	0	0	0	-0.0515633	-0.0
86	5.49054	0	0	0	0	-0.0522155	-0.0
87	5.60035	0	0	0	0	-0.0528776	-0.0
88	5.71235	0	0	0	0	-0.0535495	-0.0
89	5.8266	0	0	0	0	-0.0542315	-0.0
90	5.94313	0	0	0	0	-0.0549237	-0.0
91	6.062	0	0	0	0	0	-0.0
92	6.18324	0	0	0	0	0	-0.0
93	6.3069	0	0	0	0	0	-0.0
94	6.43304	0	0	0	0	0	-0.0
95	6.5617	0	0	0	0	0	-0.0
96	6.69293	0	0	0	0	0	-0.0
97	6.82679	0	0	0	0	0	-0.0
98	6.96333	0	0	0	0	0	-0.0
99	7.10259	0	0	0	0	0	0
100	7.24465	0	0	0	0	0	0
101	7.38954	0	0	0	0	0	0
102	7.53733	0	0	0	0	0	0
103	7.68808	0	0	0	0	0	0
104	7.84184	0	0	0	0	0	0
105	7.99867	0	0	0	0	0	0
106	8.15865	0	0	0	0	0	0
107	8.32182	0	0	0	0	0	0
108	8.48826	0	0	0	0	0	0
109	8.65802	0	0	0	0	0	0
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111	9.00781	0	0	0	0	0	0
112	9.18796	0	0	0	0	0	0
113	9.37172	0	0	0	0	0	0
114	9.55916	0	0	0	0	0	0
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116	9.94535	0	0	0	0	0	0
117	10.1443	0	0	0	0	0	0
118	10.3471	0	0	0	0	0	0
119	10.5541	0	0	0	0	0	0
120	10.7652	0	0	0	0	0	0
121	10.9805	0	0	0	0	0	0
122	11.2001	0	0	0	0	0	0
123	11.4241	0	0	0	0	0	0
124	11.6526	0	0	0	0	0	0
125	11.8856	0	0	0	0	0	0
126	12.1233	0	0	0	0	0	0
127	12.3658	0	0	0	0	0	0
128	12.6131	0	0	0	0	0	0
129	12.8654	0	0	0	0	0	0
130	13.1227	0	0	0	0	0	0
131	13.3851	0	0	0	0	0	0
132	13.6528	0	0	0	0	0	0
133	13.9259	0	0	0	0	0	0
134	14.2044	0	0	0	0	0	0
135	14.4885	0	0	0	0	0	0
136	14.7783	0	0	0	0	0	0
137	15.0738	0	0	0	0	0	0

138	15.3753	0	0	0	0	0	0
139	15.6828	0	0	0	0	0	0
140	15.9965	0	0	0	0	0	0
141	16.3164	0	0	0	0	0	0
142	16.6427	0	0	0	0	0	0
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146	18.0146	0	0	0	0	0	0
147	18.3749	0	0	0	0	0	0
148	18.7424	0	0	0	0	0	0
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152	20.2874	0	0	0	0	0	0
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155	21.5291	0	0	0	0	0	0
156	21.9597	0	0	0	0	0	0
157	22.3989	0	0	0	0	0	0
158	22.8469	0	0	0	0	0	0
159	23.3038	0	0	0	0	0	0
160	23.7699	0	0	0	0	0	0
161	24.2453	0	0	0	0	0	0
162	24.7302	0	0	0	0	0	0
163	25.2248	0	0	0	0	0	0
164	25.7293	0	0	0	0	0	0
165	26.2439	0	0	0	0	0	0
166	26.7688	0	0	0	0	0	0
167	27.3042	0	0	0	0	0	0
168	27.8502	0	0	0	0	0	0
169	28.4072	0	0	0	0	0	0
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171	29.5549	0	0	0	0	0	0
172	30.146	0	0	0	0	0	0
173	30.7489	0	0	0	0	0	0
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176	32.631	0	0	0	0	0	0
177	33.2836	0	0	0	0	0	0
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179	34.6283	0	0	0	0	0	0
180	35.3208	0	0	0	0	0	0
181	36.0272	0	0	0	0	0	0
182	36.7478	0	0	0	0	0	0
183	37.4827	0	0	0	0	0	0
184	38.2324	0	0	0	0	0	0
185	38.9971	0	0	0	0	0	0
186	39.777	0	0	0	0	0	0
187	40.5725	0	0	0	0	0	0
188	41.384	0	0	0	0	0	0
189	42.2117	0	0	0	0	0	0
190	43.0559	0	0	0	0	0	0
191	43.917	0	0	0	0	0	0
192	44.7954	0	0	0	0	0	0
193	45.6913	0	0	0	0	0	0

194	46.6051	0	0	0	0	0	0
195	47.5372	0	0	0	0	0	0
196	48.4879	0	0	0	0	0	0
197	49.4577	0	0	0	0	0	0
198	50.4468	0	0	0	0	0	0
199	51.4558	0	0	0	0	0	0
200	52.4849	0	0	0	0	0	0
201	53.5346	0	0	0	0	0	0
202	54.6053	0	0	0	0	0	0
203	55.6974	0	0	0	0	0	0
204	56.8113	0	0	0	0	0	0
205	57.9476	0	0	0	0	0	0
206	59.1065	0	0	0	0	0	0
207	60.2886	0	0	0	0	0	0
208	61.4944	0	0	0	0	0	0
209	62.7243	0	0	0	0	0	0
210	63.9788	0	0	0	0	0	0

Table[{n, st[n, 4, 1.002], st[n, 4, 1.005], st[n, 4, 1.01],  
st[n, 4, 1.02], st[n, 4, 1.04], st[n, 4, 1.08]}, {n, 1, 694}] // TableForm

1	0.994	0.985	0.97	0.94	0.88	0.76
2	-0.50601	-0.515062	-0.53025	-0.561	-0.624	-0.756
3	-0.00602002	-0.0151253	-0.0305023	-0.0620187	-0.128149	-0.273195
4	-0.00603006	-0.0151884	-0.030757	-0.0630564	-0.132454	1.06881
5	-0.00604011	-0.0152518	-0.0310141	-0.0641134	-0.136919	-0.202705
6	-0.00605019	-0.0153154	-0.0312736	-0.0651903	-0.141552	-0.215359
7	-0.00606028	-0.0153794	-0.0315355	-0.0662873	-0.146359	-0.228925
8	-0.00607039	-0.0154437	-0.0317998	-0.0674048	1.21722	-0.243472
9	-0.00608052	-0.0155082	-0.0320666	-0.0685433	-0.101777	-0.259075
10	-0.00609068	-0.0155731	-0.0323359	-0.0697031	-0.104957	1.88311
11	-0.00610084	-0.0156383	-0.0326077	-0.0708847	-0.108251	-0.121058
12	-0.00611103	-0.0157038	-0.0328821	-0.0720885	-0.111664	-0.126514
13	-0.00612124	-0.0157696	-0.0331591	-0.0733148	-0.115201	-0.132279
14	-0.00613147	-0.0158357	-0.0334386	-0.0745642	-0.118866	-0.138371
15	-0.00614171	-0.0159021	-0.0337207	1.27003	-0.122663	-0.144811
16	-0.00615198	-0.0159688	-0.0340055	-0.0502165	-0.126599	-0.151621
17	-0.00616226	-0.0160358	-0.034293	-0.0509993	-0.130678	-0.158825
18	-0.00617256	-0.0161031	-0.0345832	-0.0517963	1.89091	-0.166446
19	-0.00618289	-0.0161708	-0.0348761	-0.0526076	-0.0582552	0
20	-0.00619323	-0.0162388	-0.0351717	-0.0534336	-0.0595562	0
21	-0.00620359	-0.0163071	-0.0354701	-0.0542745	-0.0608937	0
22	-0.00621397	-0.0163757	-0.0357713	-0.0551306	-0.062269	0
23	-0.00622437	-0.0164446	-0.0360753	-0.0560022	-0.0636833	0
24	-0.00623479	-0.0165138	-0.0363822	-0.0568895	-0.0651377	0
25	-0.00624523	-0.0165834	-0.036692	-0.057793	-0.0666335	0
26	-0.00625568	-0.0166533	-0.0370047	-0.0587128	-0.0681719	0
27	-0.00626616	-0.0167236	-0.0373203	-0.0596493	-0.0697544	0
28	-0.00627666	-0.0167941	-0.0376389	-0.0606029	-0.0713823	0
29	-0.00628718	-0.016865	1.29654	-0.0615737	-0.0730569	0
30	-0.00629771	-0.0169362	-0.02494	-0.0625623	-0.0747799	0
31	-0.00630827	-0.0170078	-0.0251342	-0.0635688	-0.0765527	0
32	-0.00631884	-0.0170797	-0.0253302	-0.0645937	-0.0783768	0
33	-0.00632944	-0.0171519	-0.0255279	-0.0656372	-0.080254	0
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35	-0.00635069	-0.0172974	-0.0259287	-0.0677818	-0.084174	0

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37	-0.00637202	-0.0174442	-0.0263368	-0.0292077	0	0
38	-0.00638272	-0.0175181	-0.0265436	-0.0295342	0	0
39	-0.00639343	-0.0175924	-0.0267523	-0.0298653	0	0
40	-0.00640417	-0.0176671	-0.0269628	-0.030201	0	0
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46	-0.006469	-0.0181223	-0.0282668	-0.0323176	0	0
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48	-0.00649078	-0.0182769	-0.0287173	-0.033064	0	0
49	-0.00650169	-0.0183547	-0.0289457	-0.0334451	0	0
50	-0.00651263	-0.0184329	-0.0291761	-0.0338318	0	0
51	-0.00652359	-0.0185115	-0.0294086	-0.0342239	0	0
52	-0.00653457	-0.0185905	-0.0296433	-0.0346217	0	0
53	-0.00654557	-0.0186698	-0.02988	-0.0350252	0	0
54	-0.00655659	-0.0187495	-0.0301189	-0.0354345	0	0
55	-0.00656763	-0.0188295	-0.03036	-0.0358496	0	0
56	-0.00657869	-0.01891	-0.0306033	-0.0362708	0	0
57	-0.00658977	-0.0189908	-0.0308488	-0.036698	0	0
58	-0.00660087	1.31639	-0.0310965	-0.0371315	0	0
59	-0.006612	-0.0124763	-0.0313465	-0.0375711	0	0
60	-0.00662314	-0.0125249	-0.0315987	-0.0380172	0	0
61	-0.00663431	-0.0125737	-0.0318533	-0.0384697	0	0
62	-0.00664549	-0.0126227	-0.0321101	-0.0389288	0	0
63	-0.0066567	-0.0126719	-0.0323693	-0.0393945	0	0
64	-0.00666793	-0.0127214	-0.0326309	-0.0398671	0	0
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66	-0.00669045	-0.012821	-0.0331612	-0.0408329	0	0
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152	2.13423	-0.205303
153	2.1449	327.963
154	2.15563	-326.727
155	2.1664	-0.190601
156	2.17724	-0.191916
157	2.18812	-0.193239
158	2.19906	-0.194572
159	2.21006	-0.195913
160	2.22111	-0.197264
161	2.23221	-0.198623
162	2.24338	-0.199992
163	2.25459	-0.20137
164	2.26587	-0.202757
165	2.27719	-0.204153
166	2.28858	-0.205559
167	2.30002	-0.206973
168	2.31152	2.10313
169	2.32308	-0.198274
170	2.3347	-0.19966
171	2.34637	-0.201055
172	2.3581	-0.202459
173	2.36989	-0.203873
174	2.38174	-0.205296
175	2.39365	-0.206729
176	2.40562	-0.208172
177	2.41765	-0.209624
178	2.42974	-0.211086
179	2.44188	-0.212558

180	2.45409	-0.21404
181	2.46636	-0.215531
182	2.4787	-0.217033
183	2.49109	-0.218545
184	2.50354	42 610.1
185	2.51606	-85 005.5
186	2.52864	42 398.2
187	2.54129	-0.183268
188	2.55399	-0.184439
189	2.56676	-0.185618
190	2.5796	-0.186803
191	2.59249	-0.187997
192	2.60546	-0.189197
193	2.61848	-0.190405
194	2.63158	-0.191621
195	2.64473	-0.192844
196	2.65796	-0.194075
197	2.67125	-0.195314
198	2.6846	-0.19656
199	2.69803	-0.197814
200	2.71152	-0.199075
201	2.72507	-0.200345
202	2.7387	2.53708
203	2.75239	-0.189214
204	2.76616	-0.190439
205	2.77999	-0.191672
206	2.79389	-0.192912
207	2.80786	-0.19416
208	2.82189	-0.195416
209	2.836	-0.196679
210	2.85018	-0.197951
211	2.86444	-0.199231
212	2.87876	-0.200519
213	2.89315	-0.201814
214	2.90762	-0.203118
215	2.92216	-0.20443
216	2.93677	-0.20575
217	2.95145	-0.207079
218	2.96621	-0.208416
219	2.98104	-0.209761
220	2.99594	-0.211115
221	3.01092	665.202
222	3.02598	-662.286
223	3.04111	-0.183386
224	3.05631	-0.184539
225	3.07159	-0.185699
226	3.08695	-0.186867
227	3.10239	-0.188041
228	3.1179	-0.189223
229	3.13349	-0.190412
230	3.14916	-0.191608
231	3.1649	-0.192812
232	3.18073	-0.194023
233	3.19663	-0.195242
234	3.21261	-0.196468
235	3.22868	-0.197702

236	3.24482	-0.198943
237	3.26104	-0.200193
238	3.27735	-0.201449
239	3.29374	-0.202714
240	3.3102	-0.203986
241	3.32676	-0.205266
242	3.34339	406.015
243	3.36011	-402.718
244	3.37691	-0.182199
245	3.39379	-0.183334
246	3.41076	-0.184476
247	3.42781	-0.185625
248	3.44495	-0.186782
249	3.46218	-0.187945
250	3.47949	-0.189116
251	3.49689	-0.190294
252	3.51437	-0.191479
253	3.53194	-0.192672
254	3.5496	-0.193872
255	3.56735	-0.195079
256	3.58519	-0.196293
257	3.60311	-0.197515
258	3.62113	-0.198745
259	3.63923	-0.199982
260	3.65743	-0.201227
261	3.67572	-0.20248
262	3.6941	-0.20374
263	3.71257	-0.205008
264	3.73113	-0.206283
265	3.74978	-0.207567
266	3.76853	44 943.3
267	3.78738	-89 324.2
268	3.80631	44 386.
269	3.82535	-0.162756
270	3.84447	-0.163692
271	3.86369	-0.164633
272	3.88301	-0.16558
273	3.90243	-0.166532
274	3.92194	-0.167489
275	3.94155	-0.168452
276	3.96126	-0.169421
277	3.98106	-0.170395
278	4.00097	-0.171374
279	4.02097	-0.17236
280	4.04108	-0.17335
281	4.06128	-0.174347
282	4.08159	-0.175349
283	4.102	-0.176357
284	4.12251	-0.177371
285	4.14312	-0.17839
286	4.16384	-0.179415
287	4.18466	-0.180446
288	4.20558	-0.181483
289	4.22661	-0.182526
290	4.24774	-0.183575
291	4.26898	-0.18463

292	4.29032	4.10463
293	4.31178	-0.165306
294	4.33333	-0.166272
295	4.355	-0.167244
296	4.37678	-0.168221
297	4.39866	-0.169203
298	4.42065	-0.170192
299	4.44276	-0.171186
300	4.46497	-0.172185
301	4.48729	-0.173191
302	4.50973	-0.174202
303	4.53228	-0.17522
304	4.55494	-0.176243
305	4.57772	-0.177272
306	4.6006	-0.178307
307	4.62361	-0.179348
308	4.64673	-0.180395
309	4.66996	-0.181448
310	4.69331	-0.182507
311	4.71678	-0.183572
312	4.74036	-0.184643
313	4.76406	-0.185721
314	4.78788	-0.186805
315	4.81182	-0.187895
316	4.83588	-0.188991
317	4.86006	-0.190094
318	4.88436	-0.191203
319	4.90878	-0.192318
320	4.93333	-0.19344
321	4.95799	-0.194569
322	4.98278	-0.195704
323	5.0077	1617.29
324	5.03273	-1609.57
325	5.0579	-0.133422
326	5.08319	-0.134129
327	5.1086	-0.134839
328	5.13415	-0.135554
329	5.15982	-0.136272
330	5.18562	-0.136994
331	5.21154	-0.13772
332	5.2376	-0.13845
333	5.26379	-0.139184
334	5.29011	-0.139922
335	5.31656	-0.140664
336	5.34314	-0.14141
337	5.36986	-0.142159
338	5.39671	-0.142913
339	5.42369	-0.143671
340	5.45081	-0.144433
341	5.47806	-0.145199
342	5.50545	-0.145969
343	5.53298	-0.146743
344	5.56065	-0.147522
345	5.58845	-0.148305
346	5.61639	-0.149091
347	5.64447	-0.149883



```

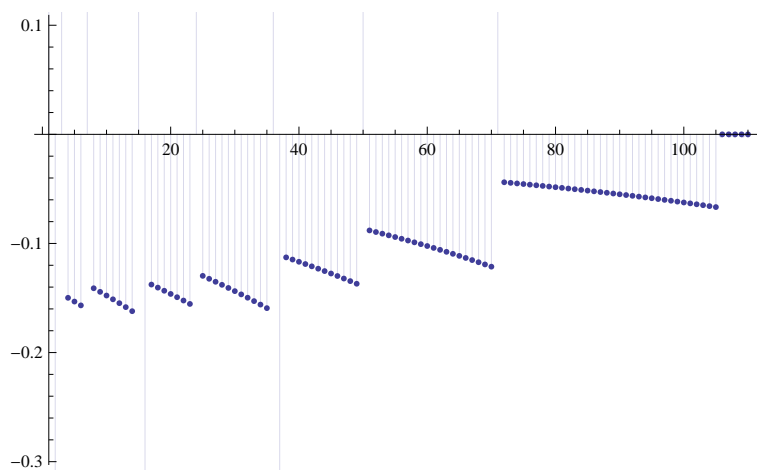
348 5.6727 -0.150678
349 5.70106 -0.151477
350 5.72956 -0.152281
351 5.75821 -0.15309
352 5.787 -0.153902
353 5.81594 -0.154719
354 5.84502 -0.15554
355 5.87424 -0.156366
356 5.90361 -0.157196
357 5.93313 -0.158031
358 5.9628 -0.15887
359 5.99261 -0.159714
360 6.02258 5.86201
361 6.05269 -0.131302
362 6.08295 -0.132008
363 6.11337 -0.132719
364 6.14393 -0.133434
365 6.17465 -0.134152
366 6.20553 -0.134874
367 6.23655 -0.1356
368 6.26774 -0.136331
369 6.29908 -0.137065
370 6.33057 -0.137803
371 6.36222 -0.138545
372 6.39403 -0.139291
373 6.426 -0.140042
374 6.45813 -0.140796
375 6.49043 -0.141555
376 6.52288 -0.142317
377 6.55549 -0.143084
378 6.58827 -0.143855
379 6.62121 -0.14463
380 6.65432 -0.14541
381 6.68759 -0.146194
382 6.72103 -0.146982
383 6.75463 -0.147774
384 6.7884 -0.14857
385 6.82235 -0.149371
386 6.85646 -0.150177
387 6.89074 -0.150986
388 6.92519 -0.1518
389 6.95982 -0.152619
390 6.99462 -0.153442
391 7.02959 -0.154269
392 7.06474 -0.155101
393 7.10006 -0.155938
394 7.13556 -0.156779
395 7.17124 -0.157625
396 7.2071 -0.158475
397 7.24313 -0.15933
398 7.27935 -0.160189
399 7.31575 -0.161054
400 7.35233 -0.161923

```

```

st[n_, a_] := If[tk2[a, n, 1.02] ≠ 0, (-1)^(n+1) / n tk2[a, n, 1.02] + 1/n, 0]
DiscretePlot[st[n, 8], {n, 1, 110}]

```

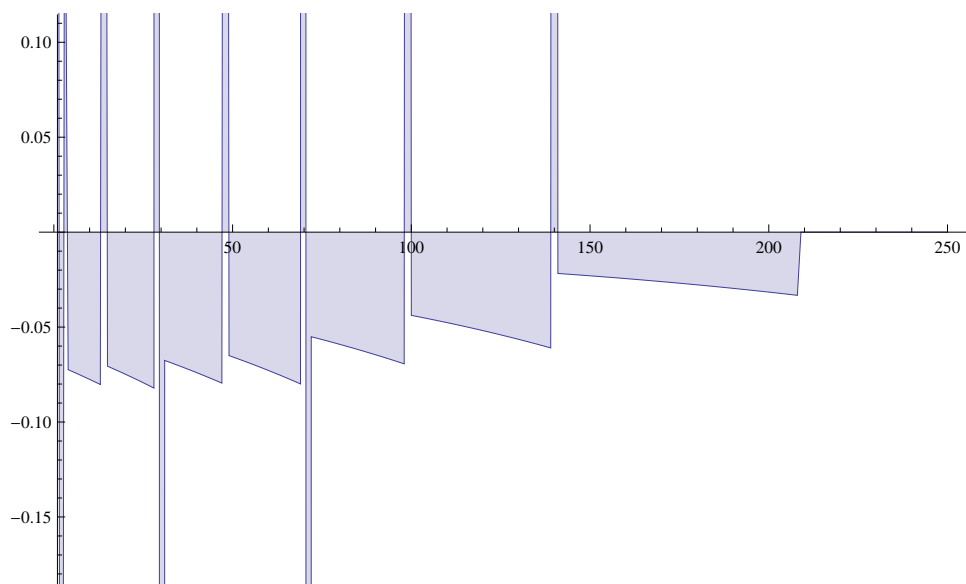


```
$RecursionLimit = 100 000
```

```
st[n_, a_] := If[tk2[a, n, 1.01] ≠ 0, (-1)^(n+1) / n tk2[a, n, 1.01] + 1/n, 0]
```

```
DiscretePlot[st[n, 8], {n, 1, 250}]
```

```
100 000
```

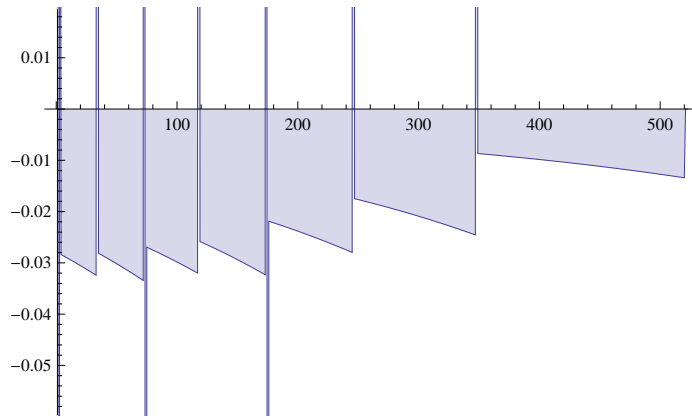


```

$RecursionLimit = 100 000
st[n_, a_] := If[tk2[a, n, 1.004] ≠ 0, (-1)^(n+1) / n tk2[a, n, 1.004] + 1 / n, 0]
DiscretePlot[st[n, 8], {n, 1, 523}]

```

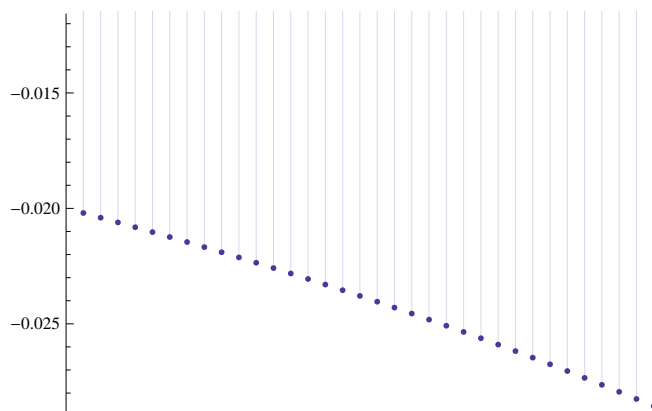
100 000



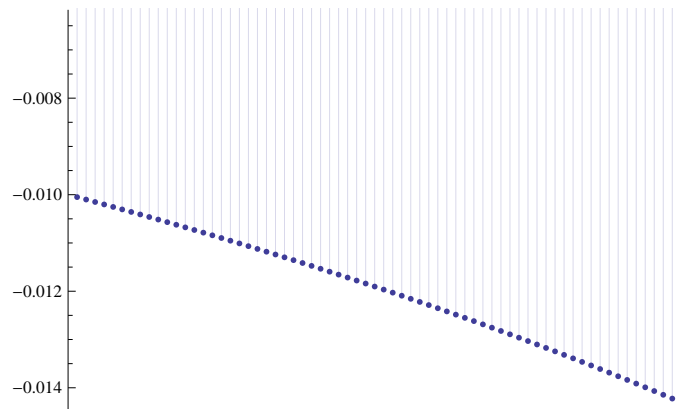
```

st[n_, a_] := If[tk2[a, n, 1.02] ≠ 0, (-1)^(n+1) / n tk2[a, n, 1.02] + 1 / n, 0]
DiscretePlot[st[n, 2], {n, 1, 37}]

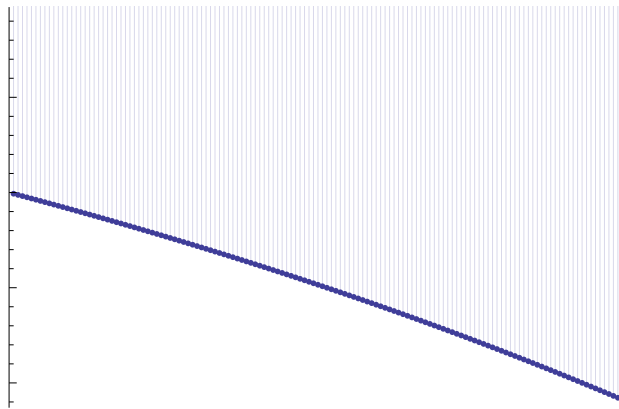
```



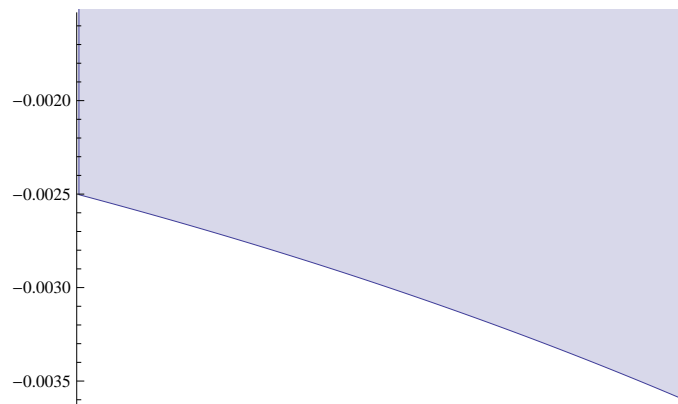
```
st[n_, a_] := If[tk2[a, n, 1.01] ≠ 0, (-1)^(n+1) / n tk2[a, n, 1.01] + 1 / n, 0]
DiscretePlot[st[n, 2], {n, 1, 70}]
```



```
st[n_, a_] := If[tk2[a, n, 1.005] ≠ 0, (-1)^(n+1) / n tk2[a, n, 1.005] + 1 / n, 0]
DiscretePlot[st[n, 2], {n, 1, 140}]
```



```
st[n_, a_] := If[tk2[a, n, 1.0025] ≠ 0, (-1)^(n+1) / n tk2[a, n, 1.0025] + 1 / n, 0]
DiscretePlot[st[n, 2], {n, 1, 280}]
```



```

st[n_, a_] := If[tk2[a, n, 1.00125] ≠ 0, (-1)^(n + 1) / n tk2[a, n, 1.00125] + 1 / n, 0]
DiscretePlot[st[n, 2], {n, 1, 560}]

```

