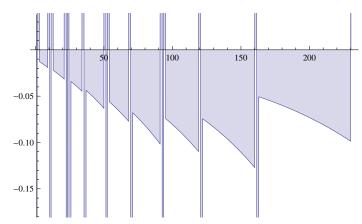
```
(*
$E_{k,a}=\displaystyle\sum_{j=2}^{\lfloor n\rfloor}E_{k-1,a}(\frac{n}{j})-
         a\sum_{j=1}^{\left(\frac{n}{a}\right)} = \frac{k-1,a}{\left(\frac{n}{j}a\right)}
            E_{0,k}(n)=1
            $\Pi(n)=li(n)- \log\log n- \gamma+ \displaystyle\lim_{a\to 1^+}\sum_
                  {k=1}^{\left(-1\right)^{k-1}E_{k,a}(n)+1}{k}
$M(n) = \displaystyle\lim_{a\to 1^+}\sum_{k=1}^{\liftloor\log_a n\rfloor}
               (-1)^{k} (E_{k,a}(n)-a E_{k,a}(\frac{n}{a}))
*)
ClearAll["Global`*"]
EE[n_, k_, a_] :=
  \mathtt{EE}[n, k, a] = \mathtt{Sum}[\mathtt{EE}[n/j, k-1, a], \{j, 2, n\}] - a \mathtt{Sum}[\mathtt{EE}[n/(aj), k-1, a], \{j, 1, n/a\}];
EE[n_, 0, a_] := 1
lin[n_{,b_{]}} := Sum[(-1)^{(k+1)}/k E2a[n, k, b], \{k, 1, Log[b, n]\}]
E2ax[n_{,k_{,a},a_{,c}]} := E2ax[n,k,a,c] = Sum[E2ax[n/j,k-1,a,c],{j,2,n}] -
         a^c Sum[E2ax[n/(aj),k-1,a,c],{j,1,n/a}];E2ax[n_,0,a_,c_]:=1
E2ay[n_{k_{1}}, k_{1}, k_{2}] := E2ay[n, k, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n_{k_{2}}, k_{2}] := E2ay[n_{k_{2}}, k_{2}] := E2ay[n, k, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n_{k_{2}}, k_{2}] := E2ay[n, k, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n, k, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] := E2ay[n, k, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + E2ay[n/j, k-1, a, c] = Sum[E2ay[n/j, k-1, a, c], {j, 2, n}] + Sum
         a^c Sum[E2ay[n/(aj),k-1,a,c],{j,1,n/a}];E2ay[n_,0,a_,c_]:=1
\lim_{n \to \infty} [n_k, b_k, c_k] := \lim_{n \to \infty} [(-1)^k + 1) / k E2a[n, k, b], \{k, 1, Log[2, n]\}]
$RecursionLimit = 10000
10000
DiscretePlot[((-1)^{(k+1)} EE[10, k, 1.01] + 1) / k, \{k, 1, Log[1.01, 10]\}]
  0.05
                                                                                      150
                                  50
                                                           100
                                                                                                                 200
 -0.05
-0.10
-0.15
-0.20
P2[x_, a_] := LogIntegral[x] - Log[Log[x]] -
```

Infinity::indet: Indeterminate expression –EulerGamma +  $-\infty$  +  $\infty$  encountered.  $\gg$ 

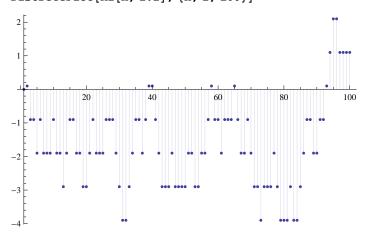
DiscretePlot[P2[n, 1.03], {n, 1, 100}]

 $EulerGamma + Sum[((-1)^(k+1) EE[x, k, a] + 1) / k, \{k, 1, Log[a, x]\}]$ 

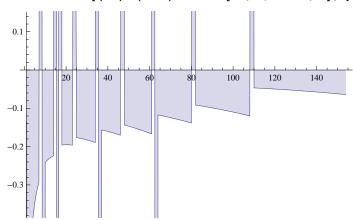
 $\texttt{DiscretePlot[((-1)^k (EE[10,k,1.01]-1.01EE[10/1.01,k,1.01])),\{k,1,Log[1.01,10]\}] }$ 

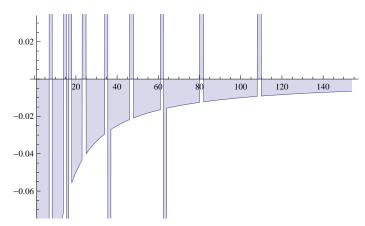


 $\label{eq:m2[x_a_l} \texttt{M2[x_a_l]} := Sum[((-1)^k (EE[x,k,a]-aEE[x/a,k,a])), \{k,1,Log[a,x]\}]$   $\label{eq:m2[x_a_l} \texttt{DiscretePlot[M2[n,1.1], \{n,1,100\}]}$ 

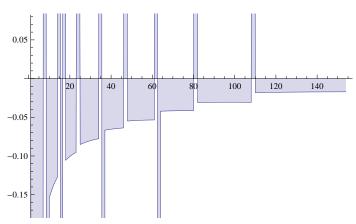


 $DiscretePlot[(-1)^{(k+1)} k E2ax[10, k, 1.015, 1], \{k, 1, Log[1.015, 10]\}]$ 

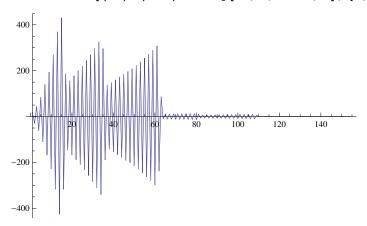




 $\texttt{DiscretePlot[(-1)^{k}k+1)/kE2ax[10,k,1.015,1-EulerGamma],\{k,1,Log[1.015,10]\}] }$ 



 $DiscretePlot[(-1)^{(k+1)} k E2ay[10, k, 1.015, 1], \{k, 1, Log[1.015, 10]\}]$ 



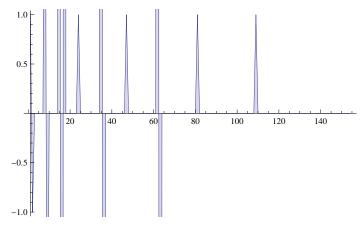
 $pp[k_{-}, a_{-}] := (-1)^{(k+1)}/k E2ax[10, k, 1.015, a]$  $pp2[k_{-}, a_{-}] := (-1)^{(k+1)}/k E2ay[10, k, 1.015, a]$ 

 $Table[\{1.015^k, pp[k, 1], pp[k, 0], pp[k, 1/2]\}, \{k, 1, Log[1.015, 10]\}] \ // \ TableForm$ 

1.06136	-0.392912	-0.25	-0.319193
1.07728	-0.345651	-0.2	-0.269854
1.09344	-0.315108	-0.166667	-0.237188
1.10984	-0.294143	-0.142857	-0.214051
1.12649	4.79003	4.375	4.57926
1.14339	-4.68973	-4.11111	-4.38947
1.16054	-0.241858	-0.1	-0.164996
1.17795	-0.235432	-0.0909091	-0.156513
1.19562	-0.230571	-0.0833333	-0.14955
1.21355	-0.226927	-0.0769231	-0.143759
1.23176	-0.224252	-0.0714286	-0.13889
1.25023	56.4548	45.2667	50.5542
1.26899	-105.534	-85.0625	-94.7468
1.28802	49.0735	39.9412	44.275
1.30734	-0.195833	-0.055556	-0.116006
1.32695	-0.195325	-0.0526316	-0.1136
1.34686	-0.195152	-0.05	-0.11149
1.36706	-0.195272	-0.047619	-0.109636
1.38756	-0.195652	-0.0454545	-0.108003
1.40838	-0.196265	-0.0434783	-0.106562
1.4295	1.23242	0.958333	1.09033
1.45095	-0.176658	-0.04	-0.0952362
1.47271 1.4948	-0.177525	-0.0384615 -0.037037	-0.0941809
1.4948	-0.178548 -0.179717	-0.037037	-0.0932439 -0.092413
1.51722	-0.179717	-0.0344828	-0.092413
1.56308	-0.18102	-0.0333333	-0.0910778
1.58653	-0.182431	-0.0322581	-0.0910287
1.61032	-0.185666	-0.0322501	-0.0899598
1.63448	-0.187438	-0.030303	-0.0895269
1.659	-0.189315	-0.0294118	-0.0891541
1.68388	58.7446	34.9714	45.3287
1.70914	-58.2199	-35.0278	- 45.1571
1.73478	-0.156254	-0.027027	-0.0759759
1.7608	-0.157538	-0.0263158	-0.0756363
1.78721	-0.15889	-0.025641	-0.0753362
1.81402	-0.160309	-0.025	-0.0750728
1.84123	-0.161792	-0.0243902	-0.0748436
1.86885	-0.163337	-0.0238095	-0.0746466
1.89688	-0.164944	-0.0232558	-0.0744796
1.92533	-0.166611	-0.0227273	-0.0743409
1.95421	-0.168336	-0.022222	-0.0742288
1.98353	-0.17012	-0.0217391	-0.0741418
2.01328	1.84132	0.978723	1.34482
2.04348	-0.143658	-0.0208333	-0.0634356
2.07413	-0.145157	-0.0204082	-0.0633369
2.10524	-0.146705	-0.02	-0.0632578
2.13682	-0.148301	-0.0196078	-0.0631975
2.16887	-0.149945	-0.0192308	-0.0631549
2.20141	-0.151636	-0.0188679	-0.0631292
2.23443	-0.153373	-0.0185185	-0.0631197
2.26794	-0.155158	-0.0181818	-0.0631257
2.30196	-0.156989	-0.0178571	-0.0631465
2.33649	-0.158867	-0.0175439	-0.0631815
2.37154	-0.160792	-0.0172414	-0.0632302
2.40711	-0.162763	-0.0169492	-0.0632919

2.44322	-0.164782	-0.0166667	-0.0633663
2.47987	-0.166846	-0.0163934	-0.0634528
2.51707			49.912
	79.1186	31.4839	
2.55482	-76.992	-31.0159	-48.8666
2.59314	-0.117163	-0.015625	-0.0490478
2.63204	-0.118287	-0.0153846	-0.0490243
2.67152	-0.119439	-0.0151515	-0.0490096
2.7116	-0.120617	-0.0149254	-0.0490034
2.75227	-0.121822	-0.0147059	-0.0490054
2.79355	-0.123054	-0.0144928	-0.0490154
2.83546	-0.124313	-0.0142857	-0.049033
2.87799	-0.125599	-0.0140845	-0.0490581
2.92116	-0.126911	-0.0138889	-0.0490903
2.96498	-0.128251	-0.0136986	-0.0491295
3.00945	-0.129618	-0.0135135	-0.0491754
3.05459	-0.131011	-0.0133333	-0.049228
3.10041	-0.132433	-0.0131579	-0.0492869
3.14692	-0.133881	-0.012987	-0.049352
3.19412	-0.135358	-0.0128205	-0.0494232
3.24203	-0.136862	-0.0126582	-0.0495003
3.29066	-0.138394	-0.0125	-0.0495832
3.34002	3.20007	0.987654	1.7779
3.39012	-0.0914433	-0.0121951	-0.0361098
3.44097	-0.0923094	-0.0120482	-0.0361071
3.49259	-0.0931931	-0.0119048	-0.0361088
3.54498	-0.0940945	-0.0117647	-0.0361149
3.59815	-0.0950137	-0.0116279	-0.0361253
3.65213	-0.0959507	-0.0114943	-0.0361398
3.70691	-0.0969058	-0.0113636	-0.0361583
3.76251	-0.097879	-0.011236	-0.0361808
3.81895	-0.0988704	-0.0111111	-0.0362072
3.87623	-0.0998802	-0.010989	-0.0362374
3.93438	-0.100908	-0.0108696	-0.0362712
3.99339	-0.101955	-0.0107527	-0.0363087
4.05329	-0.103021	-0.0106383	-0.0363497
4.11409	-0.104106	-0.0105263	-0.0363942
4.1758	-0.105209	-0.0104167	-0.036442
4.23844	-0.106332	-0.0103093	-0.0364932
4.30202	-0.107475	-0.0102041	-0.0365477
4.36655	-0.108637	-0.010101	-0.0366054
4.43205	-0.109819	-0.01	-0.0366663
4.49853	-0.111021	-0.00990099	-0.0367303
4.566	-0.112243	-0.00980392	-0.0367973
4.63449	-0.113485	-0.00970874	-0.0368674
4.70401	-0.114748	-0.00961538	-0.0369404
4.77457	-0.116032	-0.00952381	-0.0370163
4.84619	-0.117337	-0.00943396	-0.0370951
4.91888	-0.118664	-0.00934579	-0.0371767
4.99267	-0.120012	-0.00925926	-0.0372611
5.06756	4.94618	0.990826	2.21378
5.14357	-0.0467597	-0.00909091	-0.0206177
5.22072	-0.0470335	-0.00900901	-0.0205846
5.29903	-0.0473128	-0.00892857	-0.0205532
5.37852	-0.0475975	-0.00884956	-0.0205236
5.4592	-0.0478877	-0.00877193	-0.0204955
5.54109	-0.0481834	-0.00869565	-0.0204691

 $\label{eq:discretePlot} DiscretePlot[((-1) \land (k+1) \ E2ax[10, k, 1.015, 0] + 1) \ / \ k, \{k, 1, Log[1.015, 10]\}]$ 



9.01027 0. 8.87711 4.5

8.74592 **-4.** 0. 8.61667

8.48933 0.

8.36387 0.

8.24027 0. 0. 8.11849

7.99852 45.3333

7.88031 -85.

7.76385 40.

7.64912 0.

7.53607 0.

7.4247 0.

0. 7.31498

7.20688 0.

7.10037 0.

6.99544 1.

6.89206 0.

6.79021 0.

6.68986 0.

6.59099 0.

6.49359 0.

6.39762 0.

6.30308 0.

0. 6.20993

6.11816 0.

0. 6.02774

5.93866 35.

5.8509 -35.

5.76443 0.

5.67924 0.

5.59531 0.

5.51262 0.

0. 5.43116

5.35089 0.

5.27182 0.

5.19391

0. 5.11715 0.

5.04153 0.

4.96702 1.

4.89362 0.

4.8213 0.

4.75005 0.

4.67985 0.

4.61069 0.

4.54255 0.

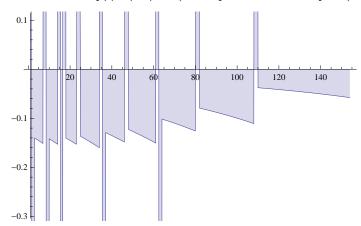
4.47542 0.

4.40928       0.         4.34412       0.         4.27992       0.         4.15435       0.         4.09296       0.         4.03247       0.         3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.47465       0.         3.4233       0.         3.27376       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.90615       0.         2.82089       0.         2.7792       0.         2.5417       0.         2.6578       0.         2.6578       0.         2.5417       0.         2.5417       0.         2.39475       0.         2.35936       0.         2.32449       0. <th></th> <th></th>		
4.34412       0.         4.27992       0.         4.15435       0.         4.09296       0.         4.03247       0.         3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.47465       0.         3.4233       0.         3.27376       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.7792       0.         2.7792       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.5417       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.25629       0.         2.125629       0. <td>4 40928</td> <td>0</td>	4 40928	0
4.27992       0.         4.21667       0.         4.15435       0.         4.09296       0.         4.03247       0.         3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.47465       0.         3.4233       0.         3.27376       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.994975       0.         2.7792       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.5417       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.25629       0.         2.22295       0. </td <td></td> <td></td>		
4.21667       0.         4.15435       0.         4.09296       0.         4.03247       0.         3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.47465       0.         3.4233       0.         3.27376       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.90615       0.         2.86321       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.50414       0.         2.46713       0.         2.35936       0.         2.35936       0.         2.32449       0.         2.25629       0.         2.25629       0.     <	4.34412	0.
4.21667       0.         4.15435       0.         4.09296       0.         4.03247       0.         3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.47465       0.         3.4233       0.         3.27376       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.90615       0.         2.86321       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.50414       0.         2.46713       0.         2.35936       0.         2.35936       0.         2.32449       0.         2.25629       0.         2.25629       0.     <	4.27992	0.
4.15435       0.         4.09296       0.         4.03247       0.         3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.4233       0.         3.4233       0.         3.27376       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.99615       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.5417       0.         2.5417       0.         2.35936       0.         2.35936       0.         2.32449       0.         2.25629       0.         2.25629       0.         2.12585       0.         2.12585       0. <td></td> <td></td>		
4.09296       0.         4.03247       0.         3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.4233       0.         3.37271       0.         3.22538       0.         3.17771       0.         3.22538       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.86321       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.5417       0.         2.57982       0.         2.39475       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.25629       0.         2.22295       0. </td <td>4.21667</td> <td>0.</td>	4.21667	0.
4.09296       0.         4.03247       0.         3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.4233       0.         3.37271       0.         3.22538       0.         3.17771       0.         3.22538       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.86321       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.5417       0.         2.57982       0.         2.39475       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.25629       0.         2.22295       0. </td <td>4.15435</td> <td>0.</td>	4.15435	0.
4.03247       0.         3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.47465       0.         3.4233       0.         3.27376       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.5417       0.         2.5417       0.         2.39475       0.         2.35936       0.         2.35936       0.         2.32295       0.         2.125629       0.         2.22295       0.         2.12585       0.         2.06348       0. </td <td></td> <td></td>		
3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.47465       0.         3.4233       0.         3.27376       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.5417       0.         2.50414       0.         2.43067       0.         2.39475       0.         2.35936       0.         2.32295       0.         2.125629       0.         2.22295       0.         2.12585       0.         2.09443       0.         2.06348       0.     <		
3.97288       31.5         3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.47465       0.         3.4233       0.         3.27376       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.5417       0.         2.50414       0.         2.43067       0.         2.39475       0.         2.35936       0.         2.32295       0.         2.125629       0.         2.22295       0.         2.12585       0.         2.09443       0.         2.06348       0.     <	4.03247	0.
3.91417       -31.         3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.47465       0.         3.4233       0.         3.2257       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.5417       0.         2.5417       0.         2.39475       0.         2.39475       0.         2.35936       0.         2.32295       0.         2.125629       0.         2.22295       0.         2.12585       0.         2.06348       0.         2.06348       0.         2.00294       0.		
3.85632       0.         3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.47465       0.         3.4233       0.         3.2287       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.994975       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.57982       0.         2.5417       0.         2.59414       0.         2.43067       0.         2.39475       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.25629       0.         2.22295       0.         2.12585       0.         2.09443       0.         2.06348       0.         2.00294       0.		
3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.47465       0.         3.4233       0.         3.37271       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.61852       0.         2.57982       0.         2.5417       0.         2.50414       0.         2.39475       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.22295       0.         2.125629       0.         2.12585       0.         2.09443       0.         2.06348       0.         2.00294       0.	3.91417	-31.
3.79933       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.47465       0.         3.4233       0.         3.37271       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.94975       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.61852       0.         2.57982       0.         2.5417       0.         2.50414       0.         2.39475       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.22295       0.         2.125629       0.         2.12585       0.         2.09443       0.         2.06348       0.         2.00294       0.	3 85632	0
3.74318       0.         3.68787       0.         3.63337       0.         3.57967       0.         3.52677       0.         3.47465       0.         3.4233       0.         3.37271       0.         3.22538       0.         3.17771       0.         3.13075       0.         3.08448       0.         3.0389       0.         2.99399       1.         2.994975       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.6578       0.         2.57982       0.         2.5417       0.         2.50414       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.29014       0.         2.15773       0.         2.12585       0.         2.09443       0.         2.06348       0.         2.00294       0.		
3.68787		0.
3.68787	3.74318	0.
3.63337		
3.57967		
3.52677 0. 3.47465 0. 3.4233 0. 3.37271 0. 3.32287 0. 3.27376 0. 3.22538 0. 3.17771 0. 3.13075 0. 3.08448 0. 3.0389 0. 2.99399 1. 2.94975 0. 2.86321 0. 2.86321 0. 2.82089 0. 2.7792 0. 2.73813 0. 2.6578 0. 2.6578 0. 2.6578 0. 2.6578 0. 2.5417 0. 2.50414 0. 2.46713 0. 2.43067 0. 2.39475 0. 2.39475 0. 2.39475 0. 2.35936 0. 2.32449 0. 2.29014 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0.	3.63337	0.
3.52677 0. 3.47465 0. 3.4233 0. 3.37271 0. 3.32287 0. 3.27376 0. 3.22538 0. 3.17771 0. 3.13075 0. 3.08448 0. 3.0389 0. 2.99399 1. 2.94975 0. 2.86321 0. 2.86321 0. 2.82089 0. 2.7792 0. 2.73813 0. 2.6578 0. 2.6578 0. 2.6578 0. 2.6578 0. 2.5417 0. 2.50414 0. 2.46713 0. 2.43067 0. 2.39475 0. 2.39475 0. 2.39475 0. 2.35936 0. 2.32449 0. 2.29014 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0.	3 57967	Ω
3.47465 0. 3.4233 0. 3.37271 0. 3.32287 0. 3.27376 0. 3.22538 0. 3.17771 0. 3.13075 0. 3.08448 0. 3.0389 0. 2.99399 1. 2.94975 0. 2.86321 0. 2.86321 0. 2.82089 0. 2.7792 0. 2.73813 0. 2.6578 0. 2.6578 0. 2.6578 0. 2.6578 0. 2.5417 0. 2.50414 0. 2.46713 0. 2.43067 0. 2.39475 0. 2.39475 0. 2.39475 0. 2.39475 0. 2.35936 0. 2.32449 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0.		
3.4233	3.52677	0.
3.4233	3.47465	0.
3.37271		
3.32287		υ.
3.32287	3.37271	0.
3.27376		
3.22538		
3.17771 0. 3.13075 0. 3.08448 0. 3.0389 0. 2.99399 1. 2.94975 0. 2.90615 0. 2.86321 0. 2.82089 0. 2.7792 0. 2.73813 0. 2.69767 0. 2.6578 0. 2.61852 0. 2.57982 0. 2.5417 0. 2.50414 0. 2.46713 0. 2.43067 0. 2.39475 0. 2.35936 0. 2.32449 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0.	3.27376	0.
3.17771 0. 3.13075 0. 3.08448 0. 3.0389 0. 2.99399 1. 2.94975 0. 2.90615 0. 2.86321 0. 2.82089 0. 2.7792 0. 2.73813 0. 2.69767 0. 2.6578 0. 2.61852 0. 2.57982 0. 2.5417 0. 2.50414 0. 2.46713 0. 2.43067 0. 2.39475 0. 2.35936 0. 2.32449 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0.	3 22538	Ο
3.13075		
3.08448 0. 3.0389 0. 2.99399 1. 2.94975 0. 2.90615 0. 2.86321 0. 2.82089 0. 2.7792 0. 2.73813 0. 2.69767 0. 2.6578 0. 2.61852 0. 2.57982 0. 2.57982 0. 2.5417 0. 2.50414 0. 2.46713 0. 2.43067 0. 2.335936 0. 2.32449 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0.	3.17771	0.
3.08448 0. 3.0389 0. 2.99399 1. 2.94975 0. 2.90615 0. 2.86321 0. 2.82089 0. 2.7792 0. 2.73813 0. 2.69767 0. 2.6578 0. 2.61852 0. 2.57982 0. 2.57982 0. 2.5417 0. 2.50414 0. 2.46713 0. 2.43067 0. 2.335936 0. 2.32449 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0.	3.13075	0.
3.0389 0. 2.99399 1. 2.94975 0. 2.90615 0. 2.86321 0. 2.82089 0. 2.7792 0. 2.73813 0. 2.6578 0. 2.6578 0. 2.5417 0. 2.5417 0. 2.5417 0. 2.34475 0. 2.339475 0. 2.35936 0. 2.32449 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0.		Λ
2.99399       1.         2.94975       0.         2.90615       0.         2.86321       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.61852       0.         2.57982       0.         2.5417       0.         2.50414       0.         2.46713       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.29014       0.         2.25629       0.         2.125629       0.         2.12585       0.         2.09443       0.         2.06348       0.         2.03298       0.         2.00294       0.		
2.94975       0.         2.90615       0.         2.86321       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.61852       0.         2.57982       0.         2.5417       0.         2.50414       0.         2.43067       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.29014       0.         2.25629       0.         2.1901       0.         2.15773       0.         2.09443       0.         2.06348       0.         2.03298       0.         2.00294       0.	3.0389	0.
2.94975       0.         2.90615       0.         2.86321       0.         2.82089       0.         2.7792       0.         2.73813       0.         2.6578       0.         2.61852       0.         2.57982       0.         2.5417       0.         2.50414       0.         2.43067       0.         2.39475       0.         2.35936       0.         2.32449       0.         2.29014       0.         2.25629       0.         2.1901       0.         2.15773       0.         2.09443       0.         2.06348       0.         2.03298       0.         2.00294       0.	2.99399	1.
2.90615		
2.86321		
2.86321	2.90615	0.
2.82089		
2.7792		
2.73813	2.82089	0.
2.73813	2.7792	0.
2.69767		
2.6578		
2.61852	2.69767	0.
2.61852	2 6578	Ω
2.57982		
2.5417 0. 2.50414 0. 2.46713 0. 2.43067 0. 2.39475 0. 2.35936 0. 2.32449 0. 2.29014 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.		0.
2.5417 0. 2.50414 0. 2.46713 0. 2.43067 0. 2.39475 0. 2.35936 0. 2.32449 0. 2.29014 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.	2.57982	0.
2.50414 0. 2.46713 0. 2.43067 0. 2.39475 0. 2.35936 0. 2.32449 0. 2.29014 0. 2.25629 0. 2.122295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.		
2.46713		
2.43067 0. 2.39475 0. 2.35936 0. 2.32449 0. 2.29014 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.	2.50414	0.
2.43067 0. 2.39475 0. 2.35936 0. 2.32449 0. 2.29014 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.	2.46713	0.
2.39475 0. 2.35936 0. 2.32449 0. 2.29014 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.		
2.35936		0.
2.32449 0. 2.29014 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.	2.39475	0.
2.32449 0. 2.29014 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.	2 35936	Λ
2.29014 0. 2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.		
2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.	2.32449	0.
2.25629 0. 2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.	2.29014	0.
2.22295 0. 2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.		0
2.1901 0. 2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.		
2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.	2.22295	0.
2.15773 0. 2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.	2.1901	0.
2.12585 0. 2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.		
2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.		
2.09443 0. 2.06348 0. 2.03298 0. 2.00294 0.	2.12585	0.
2.06348 0. 2.03298 0. 2.00294 0.		
2.03298 0. 2.00294 0.		
2.00294 0.	2.06348	υ.
2.00294 0.	2.03298	0.
1.97334 1.		
	1.97334	1.

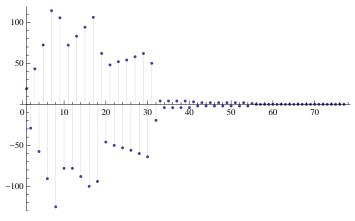
1.94417 0.

1.91544	0.
1.88714	0.
1.85925	0.
1.83177	0.
1.8047	0.
1.77803	0.
1.75175	0.
1.72587	0.
	0.
1.67523	0.
1.65047	0.
1.62608	0.
1.60205	0.
1.57838	0.
1.55505	0.
1.53207	0.
1.50943	0.
1.48712	0.
1.46514	0.
1.44349	0.
1.42216	0.
1.40114	0.
1.38044	0.
1.36004	0.
1.33994	0.
1.32013	0.
1.30063	0.
1.2814	0.
1.26247	0.
1.24381	0.
1.22543	0.
1.20732	0.
1.18948	0.
1.1719	0.
	0.
1.13752	0.
1.12071	0.
1.10414	0.
1.08783	0.
1.07175	0.
1.05591	0.
1.04031	0.
1.04031	
1.00979	0.

## 



## $DiscretePlot[((-1)^{(k+1)} E2ay[10, k, 1.03, 0] + 1) / k, \{k, 1, Log[1.03, 10]\}]$



Table[ $\{10/1.03^k, ((-1)^k, k+1) E2ay[10, k, 1.03, 0] + 1)/k\}$ , {k, 1, Log[1.03, 10]}] // TableForm

```
9.70874
          19.
9.42596
          -29.
9.15142
          43.3333
8.88487
          -57.5
          72.4
8.62609
8.37484
          -90.6667
8.13092
          114.286
7.89409
          -125.
7.66417
          105.556
7.44094
          -78.
          72.1818
7.22421
7.0138
          -78.
          83.1538
6.80951
6.61118
          -88.
6.41862
          94.1333
6.23167
          -100.
6.05016
          106.118
5.87395
          -94.
5.70286
          62.1053
5.53676
          -46.
5.37549
          48.0952
```

- 5.21893 -50.
- 52.087 5.06692
- 4.91934 -53.
- 4.77606 54.08
- 4.63695 -56.
- 58.0741 4.50189
- 4.37077 -60.
- 62.069 4.24346
- 4.11987 -64.
- 3.99987 50.0645
- 3.88337 -19.5
- 3.77026 4.06061
- 3.66045 **-4.**
- 3.55383 4.05714
- **-4.** 3.45032
- 3.34983 4.05405
- 3.25226 -4.
- 4.05128 3.15754
- 3.06557 **-4.**
- 2.97628 3.04878
- 2.88959 -2.
- 2.80543 2.04651
- 2.72372 -2.
- 2.04444 2.64439
- 2.56737 -2.
- 2.49259 2.04255
- -2. 2.41999
- 2.3495 2.04082
- 2.28107 -2.
- 2.03922 2.21463
- 2.15013 -2.
- 2.03774 2.0875
- 2.0267 -2.
- 1.96767 1.03636
- 1.91036 0.
- 1.85472 0.0350877
- 1.8007 0.
- 1.74825 0.0338983
- 1.69733 0.
- 1.64789 0.0327869
- 1.5999 0.
- 1.5533 0.031746
- 1.50806 0.
- 0.0307692 1.46413
- 1.42149 0.
- 1.38009 0.0298507
- 1.33989 0.
- 1.30086 0.0289855
- 1.26297 0.
- 1.22619 0.028169
- 1.19047 0.
- 1.1558 0.0273973
- 1.12214 0.
- 1.08945 0.0266667
- 1.05772 0.
- 0.025974 1.02691