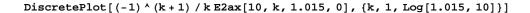
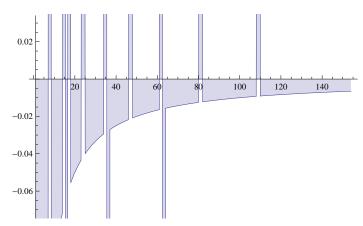
```
E2a[n_, k_, a_] :=
   E2a[n, k, a] = Sum[E2a[n/j, k-1, a], {j, 2, n}] - a Sum[E2a[n/(aj), k-1, a], {j, 1, n/a}];
E2a[n_{,0,a_{,i}} := 1
lin[n_{,b_{]}} := Sum[(-1)^{(k+1)}/kE2a[n, k, b], \{k, 1, Log[2, n]\}]
a^c Sum[E2ax[n/(aj), k-1, a, c], {j, 1, n/a}]; E2ax[n_, 0, a_, c_] := 1
E2ay[n_{k_{1}}, k_{1}, 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
$RecursionLimit = 10 000
10000
lin[100, 2]
 5
DiscretePlot[(-1)^{(k+1)/k} E2a[10, k, 1.015], \{k, 1, Log[1.015, 10]\}]
  0.1
                                            40
                                                                                                    100
                                                                                                                       120
                                                                                                                                          140
-0.1
-0.2
-0.3
10000
DiscretePlot[(-1)^{(k+1)} / k E2ax[10, k, 1.015, 1], {k, 1, Log[1.015, 10]}]
  0.1
                                                                                                                      120
                         20
                                                                                                    100
                                                                                                                                          140
-0.1
-0.2
```

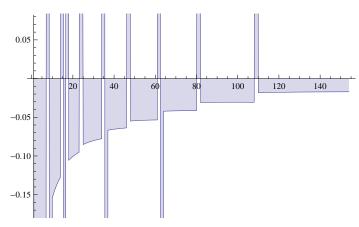
ClearAll["Global`\*"]

-0.3

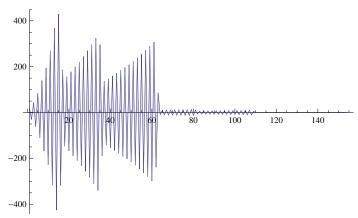




 $\texttt{DiscretePlot[(-1)^{(k+1)/k} E2ax[10,k,1.015,1-EulerGamma],\{k,1,Log[1.015,10]\}]} \\$ 



 $\label{eq:discretePlot} DiscretePlot[(-1) \ ^(k+1) \ / \ k \ E2ay[10, \ k, \ 1.015, \ 1] \ , \ \{k, \ 1, \ Log[1.015, \ 10]\}]$ 



$$\begin{split} & \text{pp}\left[k_{-},\,a_{-}\right] := (-1)\,\,^{\wedge}\left(k+1\right)\,/\,k\,\text{E2ax}\left[10,\,k,\,1.015,\,a\right] \\ & \text{pp2}\left[k_{-},\,a_{-}\right] := (-1)\,\,^{\wedge}\left(k+1\right)\,/\,k\,\text{E2ay}\left[10,\,k,\,1.015,\,a\right] \end{split}$$

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

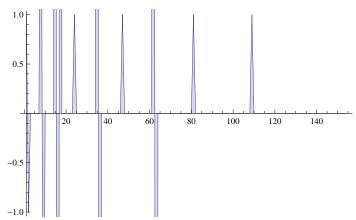
1.015	-0.135	0.	-0.0672488
1.03022	-1.63759	-1.5	-1.56789
1 04568	-0 473558	-0 333333	-0 401872

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	-0.177525	-0.0384615	-0.0941809
1.4948	-0.178548	-0.037037	-0.0932439
1.51722	-0.179717	-0.0357143	-0.092413
1.53998	-0.18102	-0.0344828	-0.0916776
1.56308	-0.182451	-0.0333333	-0.0910287
1.58653	-0.184002	-0.0322581	-0.0904584
1.61032	-0.185666	-0.03125	-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	79.1186	31.4839	49.912
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

5.6242	-0.0484845	-0.00862069	-0.0204443
5.70856	-0.0487912	-0.00854701	-0.020421
5.79419	-0.0491033	-0.00847458	-0.0203993
5.88111	-0.0494211	-0.00840336	-0.020379
5.96932	-0.0497444	-0.00833333	-0.0203602
6.05886	-0.0500732	-0.00826446	-0.0203428
6.14975	-0.0504078	-0.00819672	-0.0203268
6.24199	-0.0507479	-0.00813008	-0.0203122
6.33562	-0.0510937	-0.00806452	-0.0202989
6.43066	-0.0514452	-0.008	-0.020287
6.52712	-0.0518025	-0.00793651	-0.0202764
6.62502	-0.0521655	-0.00787402	-0.020267
6.7244	-0.0525344	-0.0078125	-0.0202589
6.82526	-0.052909	-0.00775194	-0.0202521
6.92764	-0.0532896	-0.00769231	-0.0202465
7.03156	-0.053676	-0.00763359	-0.020242
7.13703	-0.0540684	-0.00757576	-0.0202388
7.24409	-0.0544668	-0.0075188	-0.0202367
7.35275	-0.0548713	-0.00746269	-0.0202358
7.46304	-0.0552818	-0.00740741	-0.020236
7.57498	-0.0556984	-0.00735294	-0.0202373
7.68861	-0.0561212	-0.00729927	-0.0202397
7.80394	-0.0565503	-0.00724638	-0.0202431
7.921	-0.0569856	-0.00719424	-0.0202477
8.03981	-0.0574272	-0.00714286	-0.0202533
8.16041	-0.0578752	-0.0070922	-0.0202599
8.28282	-0.0583297	-0.00704225	-0.0202675
8.40706	-0.0587906	-0.00699301	-0.0202762
8.53316	-0.0592581	-0.00694444	-0.0202858
8.66116	-0.0597321	-0.00689655	-0.0202964
8.79108	-0.0602129	-0.00684932	-0.0203081
8.92294	-0.0607003	-0.00680272	-0.0203206
9.05679	-0.0611945	-0.00675676	-0.0203341
9.19264	-0.0616956	-0.00671141	-0.0203486
9.33053	-0.0622035	-0.00666667	-0.0203639
9.47049	-0.0627185	-0.00662252	-0.0203802
9.61255	-0.0632404	-0.00657895	-0.0203974
9.75673	-0.0637695	-0.00653595	-0.0204155
9.90308	-0.0643057	-0.00649351	-0.0204345

 $\texttt{DiscretePlot[((-1)^{(k+1)} E2ax[10, k, 1.015, 0] + 1) / k, \{k, 1, Log[1.015, 10]\}] }$ 



4.96702 1. 4.89362 0. 4.8213

4.75005

4.67985

4.61069

4.54255

4.47542

0.

0.

0.

0.

0.

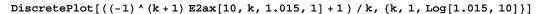
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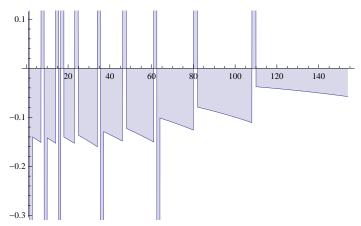
4.40928 4.34412 0. 4.27992 0. 4.21667 0. 4.15435 0. 4.09296 0. 4.03247 0. 3.97288 31.5 3.91417 -31. 3.85632 0. 3.79933 0. 3.74318 0. 3.68787 0. 3.63337 0. 3.57967 0. 3.52677 0. 3.47465 0. 3.4233 0. 3.37271 0. 3.32287 0. 3.27376 0. 3.22538 0. 3.17771 0. 3.13075 0. 3.08448 0. 3.0389 0. 2.99399 1. 2.94975 0. 2.90615 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. 2.29014 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. 1.97334 1.

1.94417

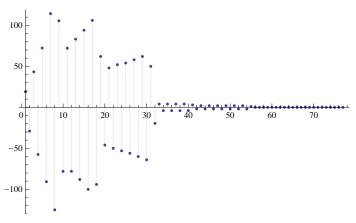
0.

1.91544 0. 1.88714 0. 1.85925 0. 1.83177 0. 1.8047 0. 1.77803 0. 1.75175 0. 1.72587 0. 1.70036 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. 1.38044 0. 1.38044 0. 1.33994 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.2814 0. 1.26247 0. 1.24381 0. 1.22543 0. 1.22543 0. 1.22543 0. 1.22543 0. 1.12071 0. 1.15458 0. 1.1719 0. 1.15458 0. 1.1719 1.15458 0. 1.1719 0. 1.15458 0. 1.1719 0. 1.15458 0. 1.1719 0. 1.15458 0. 1.1719 0. 1.10414 0. 1.08783 0. 1.07175 0. 1.05591 0. 1.04031 0. 1.02493 0. 1.00979 0.		
1.88714 0. 1.85925 0. 1.83177 0. 1.8047 0. 1.77803 0. 1.75175 0. 1.72587 0. 1.70036 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. 1.38044 0. 1.38044 0. 1.33994 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.31063 0. 1.2814 0. 1.26247 0. 1.24381 0. 1.22543 0. 1.22543 0. 1.21071 0. 1.15458 0. 1.1719 0. 1.15458 0. 1.1719 0. 1.15458 0. 1.17175 0. 1.05591 0. 1.05591 0. 1.05591 0. 1.04031 0.	1.91544	0.
1.85925		0.
1.83177 0. 1.8047 0. 1.77803 0. 1.75175 0. 1.72587 0. 1.70036 0. 1.67523 0. 1.65047 0. 1.62608 0. 1.60205 0. 1.57838 0. 1.55505 0. 1.53207 0. 1.53207 0. 1.48712 0. 1.46514 0. 1.44349 0. 1.42216 0. 1.40114 0. 1.38044 0. 1.38044 0. 1.38044 0. 1.38044 0. 1.36004 0. 1.33994 0. 1.32013 0. 1.2814 0. 1.26247 0. 1.24381 0. 1.26247 0. 1.24381 0. 1.22543 0. 1.22543 0. 1.22543 0. 1.21071 0. 1.15458 0. 1.1719 0. 1.15458 0. 1.1775 0. 1.10414 0. 1.08783 0. 1.07175 0. 1.05591 0. 1.04031 0.		
1.8047 0. 1.77803 0. 1.775175 0. 1.72587 0. 1.70036 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. 1.38044 0. 1.33994 0. 1.32013 0. 1.32013 0. 1.32013 0. 1.2814 0. 1.26247 0. 1.24381 0. 1.26247 0. 1.24381 0. 1.2543 0. 1.2543 0. 1.21071 0. 1.15458 0. 1.1719 0. 1.15458 0. 1.1719 0. 1.15458 0. 1.10414 0. 1.08783 0. 1.07175 0. 1.05591 0. 1.05591 0. 1.02493 0.	1 02177	
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1.00979 0.		
	1.00979	0.





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



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

```
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.
6.80951
          83.1538
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
```

5.06692 52.087

4.91934 -53.

4.77606 54.08 4.63695 -56.

4.50189 58.0741

4.37077 -60.

4.24346 62.069

4.11987 -64.

3.99987 50.0645

3.88337 -19.5

3.77026 4.06061

3.66045 -4.

3.55383 4.05714

3.45032 -4.

3.34983 4.05405

3.25226 -4.

3.15754 4.05128

3.06557 -4.

2.97628 3.04878

2.88959 -2.

2.80543 2.04651

2.72372 -2.

2.64439 2.04444

2.56737 - 2.

2.49259 2.04255

2.41999 -2.

2.3495 2.04082

2.28107 -2.

2.21463 2.03922

2.15013 -2.

2.0875 2.03774

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.

1.46413 0.0307692

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.

1.02691 0.025974