

$$n \quad a_n = \frac{\cos(n)}{n^2} \quad \sum_{k=1}^n \frac{\cos(k)}{k^2}$$

1	0.540302306	0.540302
2	-0.10403671	0.436266
3	-0.10999917	0.326266
4	-0.04085273	0.285414
5	0.011346487	0.29676
6	0.026671397	0.323432
7	0.01538576	0.338817
8	-0.00227344	0.336544
9	-0.01124852	0.325295
10	-0.00839072	0.316905
11	3.6576E-05	0.316941
12	0.005860097	0.322801
13	0.005369508	0.328171
14	0.000697639	0.328868
15	-0.00337639	0.325492
16	-0.00374086	0.321751
17	-0.00095212	0.320799
18	0.002038015	0.322837
19	0.002738794	0.325576
20	0.001020205	0.326596
21	-0.00124202	0.325354
22	-0.00206603	0.323288
23	-0.00100725	0.322281
24	0.000736422	0.323017
25	0.001585924	0.324603
26	0.000956981	0.32556
27	-0.00040074	0.325159
28	-0.00122781	0.323932
29	-0.00088949	0.323042
30	0.00017139	0.323214
31	0.000951865	0.324165
32	0.000814671	0.32498
33	-1.2192E-05	0.324968
34	-0.00073406	0.324234
35	-0.00073771	0.323496
36	-9.8737E-05	0.323397
37	0.000559104	0.323956
38	0.000661408	0.324618
39	0.000175308	0.324793
40	-0.00041684	0.324376
41	-0.00058735	0.323789
42	-0.00022675	0.323562
43	0.000300224	0.323862
44	0.000516448	0.324379

45	0.000259418	0.324638
46	-0.00020424	0.324434
47	-0.00044922	0.323985
48	-0.00027784	0.323707
49	0.000125195	0.323832
50	0.000385986	0.324218
51	0.000285334	0.324504
52	-6.0278E-05	0.324443
53	-0.00032691	0.324116
54	-0.0002844	0.323832
55	7.31463E-06	0.323839
56	0.000272073	0.324111
57	0.000276967	0.324388
58	3.54281E-05	0.324424
59	-0.00022151	0.324202
60	-0.00026456	0.323938
61	-6.9364E-05	0.323868
62	0.00017521	0.324044
63	0.000248399	0.324292
64	9.56683E-05	0.324388
65	-0.00013313	0.324254
66	-0.00022949	0.324025
67	-0.00011534	0.32391
68	9.51866E-05	0.324005
69	0.000208652	0.324213
70	0.000129249	0.324343