

n	$1/(n^2)$	sn
1	1.0000000000	1.0000000000
2	0.2500000000	1.2500000000
3	0.1111111111	1.3611111111
4	0.0625000000	1.4236111111
5	0.0400000000	1.4636111111
6	0.0277777778	1.4913888889
7	0.0204081633	1.5117970522
8	0.0156250000	1.5274220522
9	0.0123456790	1.5397677312
10	0.0100000000	1.5497677312

n	$1/(n^4)$	sn
1	1.0000000000	1.0000000000
2	0.0625000000	1.0625000000
3	0.0123456790	1.0748456790
4	0.0039062500	1.0787519290
5	0.0016000000	1.0803519290
6	0.0007716049	1.0811235340
7	0.0004164931	1.0815400271
8	0.0002441406	1.0817841677
9	0.0001524158	1.0819365835
10	0.0001000000	1.0820365835

$$n \quad 1/(4(n)^4) - 1/(4(n+1)^4)$$

1	0.9375000000
2	0.0501543210
3	0.0084394290
4	0.0023062500
5	0.0008283951
6	0.0003551118
7	0.0001723525
8	0.0000917248
9	0.0000524158
10	0.0000316987
11	0.0000200760
12	0.0000132125
13	0.0000089820
14	0.0000062777
15	0.0000044943
16	0.0000032858
17	0.0000024470
18	0.0000018526