

Table 23.3 SUMS OF RECIPROCAL POWERS

n	$\lambda(n) = \sum_{k=0}^{\infty} (2k+1)^{-n}$				$\beta(n) = \sum_{k=0}^{\infty} (-1)^k (2k+1)^{-n}$			
1		∞			0.78539	81633	97448	310
2	1.23370	05501	36169	82735	0.91596	55941	77219	015
3	1.05179	97902	64644	99972	0.96894	61462	59369	380
4	1.01467	80316	04192	05455	0.98894	45517	41105	336
5	1.00452	37627	95139	61613	0.99615	78280	77088	064
6	1.00144	70766	40942	12191	0.99868	52222	18438	135
7	1.00047	15486	52376	55476	0.99955	45078	90539	909
8	1.00015	51790	25296	11930	0.99984	99902	46829	657
9	1.00005	13451	83843	77259	0.99994	96841	87220	090
10	1.00001	70413	63044	82549	0.99998	31640	26196	877
11	1.00000	56660	51090	10935	0.99999	43749	73823	699
12	1.00000	18858	48583	11958	0.99999	81223	50587	882
13	1.00000	06280	55421	80232	0.99999	93735	83771	841
14	1.00000	02092	40519	21150	0.99999	97910	87248	735
15	1.00000	00697	24703	12929	0.99999	99303	40842	624
16	1.00000	00232	37157	37916	0.99999	99767	75950	903
17	1.00000	00077	44839	45587	0.99999	99922	57782	104
18	1.00000	00025	81437	55666	0.99999	99974	19086	745
19	1.00000	00008	60444	11452	0.99999	99991	39660	745
20	1.00000	00002	86807	69746	0.99999	99997	13213	274
21	1.00000	00000	95601	16531	0.99999	99999	04403	029
22	1.00000	00000	31866	77514	0.99999	99999	68134	064
23	1.00000	00000	10622	20241	0.99999	99999	89377	965
24	1.00000	00000	03540	72294	0.99999	99999	96459	311
25	1.00000	00000	01180	23874	0.99999	99999	98819	768
26	1.00000	00000	00393	41247	0.99999	99999	99606	589
27	1.00000	00000	00131	13740	0.99999	99999	99868	863
28	1.00000	00000	00043	71245	0.99999	99999	99956	288
29	1.00000	00000	00014	57081	0.99999	99999	99985	429
30	1.00000	00000	00004	85694	0.99999	99999	99995	143
31	1.00000	00000	00001	61898	0.99999	99999	99998	381
32	1.00000	00000	00000	53966	0.99999	99999	99999	460
33	1.00000	00000	00000	17989	0.99999	99999	99999	820
34	1.00000	00000	00000	05996	0.99999	99999	99999	940
35	1.00000	00000	00000	01999	0.99999	99999	99999	980
36	1.00000	00000	00000	00666	0.99999	99999	99999	993
37	1.00000	00000	00000	00222	0.99999	99999	99999	998
38	1.00000	00000	00000	00074	0.99999	99999	99999	999
39	1.00000	00000	00000	00025				
40	1.00000	00000	00000	00008				
41	1.00000	00000	00000	00003				
42	1.00000	00000	00000	00001				