

Table 1

q	Approximate value of π	Upper bound on absolute error	$ \Delta $	h	λ
1	$\frac{3}{1}$	$\frac{1}{2} = 0.5000$	0.1416	0.1416	3.5
2	$\frac{6}{2}$	$\frac{1}{4} = 0.2500$	0.1418	0.2832	1.8
3	$\frac{9}{3}$	$\frac{1}{6} = 0.1667$	0.1418	0.4248	1.2
4	$\frac{13}{4}$	$\frac{1}{8} = 0.1250$	0.1084	0.4336	1.2
5	$\frac{16}{5}$	$\frac{1}{10} = 0.1000$	0.0584	0.2920	1.7
6	$\frac{19}{6}$	$\frac{1}{12} = 0.0833$	0.0251	0.1504	3.3
7	$\frac{22}{7}$	$\frac{1}{14} = 0.0714$	0.0013	0.0089	56.5 (1)
8	$\frac{25}{8}$	$\frac{1}{16} = 0.0625$	0.0166	0.1327	3.8
9	$\frac{28}{9}$	$\frac{1}{18} = 0.0556$	0.0305	0.2743	1.8
10	$\frac{31}{10}$	$\frac{1}{20} = 0.0500$	0.0416	0.4159	1.2