

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 |