```
input    initial_single = 0.182322
         initial_double = 0.182321556794
n=   single value       double value       exact value
1    0.0883921831846    0.0883922160302    0.0883922160302
2    0.0580390840769    0.0580389198489    0.0580389198489
3    0.0431379129489    0.043138734089     0.043138734089
4    0.0343104352554    0.034306329555     0.034306329555
5    0.0284478237232    0.0284683522252    0.0284683522251
6    0.0244275480509    0.0243249055404    0.024324905541
7    0.0207194026027    0.021232615155     0.021232615152
8    0.0214029869864    0.0188369242248    0.0188369242401
9    0.00409617617935   0.0169264899873    0.0169264899104
10   0.0795191191033    0.0153675500637    0.0153675504482
11   −0.306686504607    0.0140713405907    0.0140713386682
12   1.61676585637      0.01297663038      0.0129766399925
13   −8.00690620492     0.012039925023     0.0120398769604
14   40.105959596  0.0112289463138   0.0112291866265
15   −200.463131314     0.0105219350978    0.0105207335343
16   1002.37815657      0.00989032451098   0.00989633232855
17   −5011.83195931     0.00937190685686   0.00934186776899
18   25059.2153521      0.00869602127127   0.0088462167106
19   −125296.024129     0.00915147259102   0.00840049539435
20   626480.170645      0.00424263704492   0.00799752302823
21   −3132400.8056      0.0264058623944    0.00763143247789
22   15662004.0735      −0.0865747665177   0.00729738306511
23   −78310020.3239     0.476352093458     0.00699134554401
24   391550101.661      −2.34009380062     0.00670993894663
25   −1957750508.27     11.7404690031      0.00645030526687
26   9788752541.37      −58.6638834771     0.00621001212721
27   −48943762706.8     293.356454423      0.00598697640098
28   244718813534.0     −1466.74655783     0.00577940370941
29   −1.22359406767e+12    7333.76727189      0.00558574007364
30   6.11797033835e+12 −36668.8030261 0.00540463296514
```