

ans =

281

The exact area of our function is = $5.493603e-01$.
The difference of exact and approx = $4.724372e-01$ using 1 samples.
The uncompensated trapezoid sum is = $7.692308e-02$.
The compensated trapezoid sum is = $1.262327e-01$.
The compensation error is = $4.930966e-02$.
The sum of the subErrors = $4.930966e-02$.
The sum of true SubErrors = $4.724372e-01$.

ans =

281

The exact area of our function is = $5.493603e-01$.
The difference of exact and approx = $1.655861e-03$ using 11 samples.
The uncompensated trapezoid sum is = $5.477044e-01$.
The compensated trapezoid sum is = $5.481120e-01$.
The compensation error is = $4.075179e-04$.
The sum of the subErrors = $4.075179e-04$.
The sum of true SubErrors = $1.655861e-03$.

ans =

281

The exact area of our function is = $5.493603e-01$.
The difference of exact and approx = $1.139721e-04$ using 21 samples.
The uncompensated trapezoid sum is = $5.492463e-01$.
The compensated trapezoid sum is = $5.493581e-01$.
The compensation error is = $1.118133e-04$.
The sum of the subErrors = $1.118133e-04$.
The sum of true SubErrors = $1.139721e-04$.

ans =

281

The exact area of our function is = $5.493603e-01$.
The difference of exact and approx = $5.127733e-05$ using 31 samples.
The uncompensated trapezoid sum is = $5.493090e-01$.
The compensated trapezoid sum is = $5.493603e-01$.
The compensation error is = $5.131079e-05$.
The sum of the subErrors = $5.131079e-05$.
The sum of true SubErrors = $5.127733e-05$.

ans =

281

The exact area of our function is = $5.493603e-01$.
The difference of exact and approx = $2.932117e-05$ using 41 samples.
The uncompensated trapezoid sum is = $5.493310e-01$.
The compensated trapezoid sum is = $5.493603e-01$.
The compensation error is = $2.933353e-05$.

The sum of the subErrors = 2.933353e-05.
The sum of true SubErrors = 2.932117e-05.

ans =

281

The exact area of our function is = 5.493603e-01.
The difference of exact and approx = 1.895279e-05 using 51 samples.
The uncompensated trapezoid sum is = 5.493414e-01.
The compensated trapezoid sum is = 5.493603e-01.
The compensation error is = 1.895796e-05.
The sum of the subErrors = 1.895796e-05.
The sum of true SubErrors = 1.895279e-05.

ans =

281

The exact area of our function is = 5.493603e-01.
The difference of exact and approx = 1.324920e-05 using 61 samples.
The uncompensated trapezoid sum is = 5.493471e-01.
The compensated trapezoid sum is = 5.493603e-01.
The compensation error is = 1.325172e-05.
The sum of the subErrors = 1.325172e-05.
The sum of true SubErrors = 1.324920e-05.

ans =

281

The exact area of our function is = 5.493603e-01.
The difference of exact and approx = 9.780346e-06 using 71 samples.
The uncompensated trapezoid sum is = 5.493505e-01.
The compensated trapezoid sum is = 5.493603e-01.
The compensation error is = 9.781723e-06.
The sum of the subErrors = 9.781723e-06.
The sum of true SubErrors = 9.780346e-06.

ans =

281

The exact area of our function is = 5.493603e-01.
The difference of exact and approx = 7.514758e-06 using 81 samples.
The uncompensated trapezoid sum is = 5.493528e-01.
The compensated trapezoid sum is = 5.493603e-01.
The compensation error is = 7.515572e-06.
The sum of the subErrors = 7.515572e-06.
The sum of true SubErrors = 7.514758e-06.

ans =

281

The exact area of our function is = 5.493603e-01.
The difference of exact and approx = 5.954044e-06 using 91 samples.
The uncompensated trapezoid sum is = 5.493544e-01.

The compensated trapezoid sum is = 5.493603e-01.
The compensation error is = 5.954554e-06.
The sum of the subErrors = 5.954554e-06.
The sum of true SubErrors = 5.954044e-06.

ans =

281

The exact area of our function is = 5.493603e-01.
The difference of exact and approx = 4.833471e-06 using 101 samples.
The uncompensated trapezoid sum is = 5.493555e-01.
The compensated trapezoid sum is = 5.493603e-01.
The compensation error is = 4.833807e-06.
The sum of the subErrors = 4.833807e-06.
The sum of true SubErrors = 4.833471e-06.
>>