|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Function | n | Mid-point Rule | | Trapezium Rule | | Simpson’s Rule | |
| error | OOA | error | OOA | error | OOA |
|  | 25 | -0.0119 | 2.0045 | 0.0237 | 2.0026 |  |  |
| 50 | -0.0030 | 2.0011 | 0.0059 | 2.0006 | -1.4086e-05 | 4.0046 |
| 100 | -7.4041e-04 | 2.0003 | 0.0015 | 2.0002 | -8.7761e-07 | 4.0011 |
| 200 | -1.8507e-04 |  | 3.7012e-04 |  | -5.4807e-08 |  |
|  | 25 | -0.0039 | 2.0040 | 0.0079 | 1.9985 |  |  |
| 50 | -9.8386e-04 | 2.0143 | 0.002 | 1.9985 | 2.6921e-06 | -0.24 |
| 100 | -2.4354e-04 | 2.0583 | 4.9670e-04 | 1.9985 | 3.1793e-06 | -0.0137 |
| 200 | -5.8474e-05 |  | 1.2658e-04 |  | 3.2098e-06 |  |
|  | 25 | -1.7764e-15 | 0 | -8.8818e-16 | -1 |  |  |
| 50 | -1.7764e-15 | 1 | -1.7764e-05 | 0 | -8.8818e-16 | -1.585 |
| 100 | -8.8818e-16 | Inf | -1.7763e-15 | 0 | -2.6645e-15 | 0 |
| 200 | 0 |  | -1.7764e-15 |  | -2.6645e-15 |  |