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| --- | --- | --- | --- | --- | --- |
| h (step size) | Exact Solution | 1st Order Solution | 2nd Order Central Solution | 1st Order Error | 2nd Order Error |
| 1.00000000E-05 | -1.3444023E-03 | -1.3443110E-03 | -1.3444023E-03 | 9.14E-08 | 4.93E-13 |
| 1.00990900E-04 | -1.3444023E-03 | -1.3434795E-03 | -1.3444024E-03 | 9.23E-07 | 4.81E-11 |
| 1.00090090E-03 | -1.3444023E-03 | -1.3352608E-03 | -1.3444071E-03 | 9.14E-06 | 4.72E-09 |
| 1.00000009E-02 | -1.3444023E-03 | -1.2534923E-03 | -1.3448738E-03 | 9.09E-05 | 4.71E-07 |
| 1.00000000E-01 | -1.3444023E-03 | -4.7642937E-04 | -1.3915828E-03 | 8.68E-04 | 4.72E-05 |