

### Homework 9 Problem 2 Table

| i  | x_i           | d_i           | relative error | f(x_i)                 |
|----|---------------|---------------|----------------|------------------------|
| 1  | 1.5000000e-01 | 3.5000000e-01 | 1.0769231e+00  | -6.258487694287800e-01 |
| 2  | 2.8368810e-01 | 3.5000000e-01 | 1.0769231e+00  | -1.374080740675135e+00 |
| 3  | 5.0000000e-01 | 3.5000000e-01 | 1.0769231e+00  | -9.070257317431829e-02 |
| 4  | 3.6631190e-01 | 3.5000000e-01 | 1.0769231e+00  | -5.998517726731802e-01 |
| 5  | 2.3262379e-01 | 2.1631190e-01 | 8.3791173e-01  | -1.915678862851527e+00 |
| 6  | 2.0106431e-01 | 1.3368810e-01 | 6.1651727e-01  | -1.966095227667564e+00 |
| 7  | 1.8155948e-01 | 8.2623792e-02 | 4.3188005e-01  | -1.699964962780630e+00 |
| 8  | 2.1311896e-01 | 5.1064312e-02 | 2.4657834e-01  | -1.999796513690121e+00 |
| 9  | 2.2056914e-01 | 3.1559480e-02 | 1.4553999e-01  | -1.984082131188440e+00 |
| 10 | 2.0851449e-01 | 1.9504832e-02 | 9.2520322e-02  | -1.996520844693189e+00 |
| 11 | 2.1596468e-01 | 1.2054649e-02 | 5.6187875e-02  | -1.996639708419299e+00 |
| 12 | 2.1136021e-01 | 7.4501827e-03 | 3.5102701e-02  | -1.999821957610736e+00 |
| 13 | 2.1027324e-01 | 4.6044661e-03 | 2.1841085e-02  | -1.999061496728106e+00 |
| 14 | 2.1203199e-01 | 2.8457166e-03 | 1.3442461e-02  | -1.999992471242155e+00 |
| 15 | 2.1244718e-01 | 1.7587496e-03 | 8.2866236e-03  | -1.999985760503490e+00 |
| 16 | 2.1177540e-01 | 1.0869670e-03 | 5.1295331e-03  | -1.999953969476484e+00 |
| 17 | 2.1219058e-01 | 6.7178255e-04 | 3.1671231e-03  | -1.999999936783962e+00 |
| 18 | 2.1228859e-01 | 4.1518445e-04 | 1.9562065e-03  | -1.999998343328427e+00 |
| 19 | 2.1213001e-01 | 2.5659810e-04 | 1.2094539e-03  | -1.999998552761491e+00 |
| 20 | 2.1222802e-01 | 1.5858635e-04 | 7.4731103e-04  | -1.999999886827030e+00 |
| 21 | 2.1216744e-01 | 9.8011754e-05 | 4.6192954e-04  | -1.999999621975776e+00 |
| 22 | 2.1220488e-01 | 6.0574595e-05 | 2.8546297e-04  | -1.999999999278076e+00 |
| 23 | 2.1221372e-01 | 3.7437159e-05 | 1.7641620e-04  | -1.999999987478049e+00 |
| 24 | 2.1219942e-01 | 2.3137436e-05 | 1.0903488e-04  | -1.999999987312429e+00 |
| 25 | 2.1220826e-01 | 1.4299722e-05 | 6.7385860e-05  | -1.999999999316794e+00 |
| 26 | 2.1221034e-01 | 8.8377143e-06 | 4.1646216e-05  | -1.999999996531097e+00 |
| 27 | 2.1220697e-01 | 5.4620078e-06 | 2.5738982e-05  | -1.999999999965289e+00 |
| 28 | 2.1220617e-01 | 3.3757065e-06 | 1.5907644e-05  | -1.999999999956154e+00 |
| 29 | 2.1220746e-01 | 2.0863013e-06 | 9.8314347e-06  | -1.999999999814356e+00 |