The lower limit has the function value f = sin(0) = 0.
The upper limit has the function value f = sin(2.094395e+00) = 8.660254e-01.

Trapezoidal Rule:
For term = 1, the sum is: 9.068997e-01
For term = 2, the sum is: 1.360350e+00
For term = 3, the sum is: 1.438576e+00
For term = 4, the sum is: 1.465573e+00
For term = 5, the sum is: 1.478003e+00
For term = 6, the sum is: 1.484738e+00
For term = 7, the sum is: 1.488793e+00
For term = 8, the sum is: 1.491423e+00
For term = 9, the sum is: 1.493225e+00
For term = 10, the sum is: 1.494513e+00

Simpson's 1/3 Rule:
For term = 1, the sum is: 6.045998e-01
For term = 2, the sum is: 1.511499e+00
For term = 3, the sum is: 1.258217e+00
For term = 4, the sum is: 1.500647e+00
For term = 5, the sum is: 1.364503e+00
For term = 6, the sum is: 1.500126e+00
For term = 7, the sum is: 1.406180e+00
For term = 8, the sum is: 1.500039e+00
For term = 9, the sum is: 1.428314e+00
For term = 10, the sum is: 1.500016e+00

Simpson's 3/8 Rule:
For term = 1, the sum is: 6.801748e-01
For term = 2, the sum is: 1.360350e+00
For term = 3, the sum is: 1.505035e+00
For term = 4, the sum is: 1.367398e+00
For term = 5, the sum is: 1.445344e+00
For term = 6, the sum is: 1.500287e+00
For term = 7, the sum is: 1.429201e+00
For term = 8, the sum is: 1.467745e+00
For term = 9, the sum is: 1.500056e+00
For term = 10, the sum is: 1.451762e+00>>