

$$\int_0^{\pi} \sin x dx = 2$$

N	Trapezoid	Euler-Maclaurin
4	1.896118897937	1.999984233398
8	1.974231601946	1.999999756508
16	1.993570343772	1.999999996206
32	1.99839336097	1.999999999941
64	1.99959838864	1.999999999999
128	1.999899600184	2
256	1.999974900235	2
512	1.999993725071	2
1024	1.999998431268	2

N	Simpson	Boole
4	2.004559754984	1.998570731824
8	2.000269169948	1.999983130946
16	2.000016591048	1.999999752455
32	2.000001033369	1.999999996191
64	2.00000006453	1.999999999941
128	2.000000004032	1.999999999999
256	2.000000000252	2
512	2.000000000016	2
1024	2.000000000001	2