

Assignment 1

Trapezoidal and Simpson Rules

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Tab. 1. Report of Result

Number of Intervals	Trapezoidal Rule Result	Error	Convergence Order	Simpson Rule Result	Error	Convergence Order
N = 20	1.99588597	0.00411403	2.00044518	2.00000678	0.00000678	4.00318278
N = 40	1.99897181	0.00102819	2.00011125	2.00000042	0.00000042	4.00079493
N = 80	1.99974297	0.00025703	2.00002781	2.00000003	0.00000003	4.00020003
N = 160	1.99993574	0.00006426	2.00000695	2.00000000	0.00000000	4.00007798
N = 320	1.99998394	0.00001606	N/A	2.00000000	0.00000000	N/A