

Function	n	Mid-point Rule		Trapezium Rule		Simpson's Rule	
		error	OOA	error	OOA	error	OOA
$\sin x$	25	-0.0119		0.0237			
	50	-0.0030	2.0045	0.0059	2.0026	-1.4086e-05	
	100	-7.4041e-04	2.0011	0.0015	2.0006	-8.7761e-07	4.0046
	200	-1.8507e-04	2.0003	3.7012e-04	2.0002	-5.4807e-08	4.0011
$ \sin x $	25	-0.0039		0.0079			
	50	-9.8707e-04	2.0005	0.002	2.0003	-5.1976e-07	
	100	-2.4675e-04	2.0001	4.9349e-04	2.0003	-3.2474e-08	4.0005
	200	-6.1685e-05	2.0000	1.2337e-04	2.0003	-2.0294e-09	4.0001
$\sin^2 x$	25	-1.7764e-15		-8.8818e-16			
	50	-1.7764e-15	0	-1.7764e-05	-1	-8.8818e-16	
	100	-8.8818e-16	1	-1.7763e-15	0	-2.6645e-15	-1.585
	200	0	Inf	-1.7764e-15	0	-2.6645e-15	0