

Function	n	Mid-point Rule		Trapezium Rule		Simpson's Rule	
		error	OOA	error	OOA	error	OOA
$\sin x$	25	-0.0119	2.0045	0.0237	2.0026		
	50	-0.0030	2.0011	0.0059	2.0006	-1.4086e-05	4.0046
	100	-7.4041e-04	2.0003	0.0015	2.0002	-8.7761e-07	4.0011
	200	-1.8507e-04		3.7012e-04		-5.4807e-08	
$ \sin x $	25	-0.0039	2.0040	0.0079	1.9985		
	50	-9.8386e-04	2.0143	0.002	1.9985	2.6921e-06	-0.24
	100	-2.4354e-04	2.0583	4.9670e-04	1.9985	3.1793e-06	-0.0137
	200	-5.8474e-05		1.2658e-04		3.2098e-06	
$\sin^2 x$	25	-1.7764e-15	0	-8.8818e-16	-1		
	50	-1.7764e-15	1	-1.7764e-05	0	-8.8818e-16	-1.585
	100	-8.8818e-16	Inf	-1.7763e-15	0	-2.6645e-15	0
	200	0		-1.7764e-15		-2.6645e-15	