Table_Direct_Solver =

2×4 table

	Grid_Size_7	Grid_Size_15	Grid_Size_31	Grid_Size_63
Run Time Storage(bytes)	0.0556868950277821 20248	0.0049308080456508 409112	0.0520956603534475 7404568	1.64134819447642 126089240
Table_Sparse_Solver :	-			
2×4 <u>table</u>				

	Grid_Size_7	Grid_Size_15	Grid_Size_31	Grid_Size_63
Run Time	0.00944127028324703	0.0249423028524613	0.0122118935552331	0.12329206626292
Storage(bytes)	4912	22960	98992	410800

Table_Gauss_Seidel_Solver =

2×4 table

	Grid_Size_7	Grid_Size_15	Grid_Size_31	Grid_Size_63
Run Time Storage(bytes)	0.0195875791829763	0.00940735703334029	0.12225860459471 16400	1.38613001626051 65552

Number of iterations Gauss-Seidel takes to converge:-

Iterations for step size 7 is 75

Iterations for step size 15 is 299

Iterations for step size 31 is 1196

Iterations for step size 63 is 4779

Iterations for step size 127 is 19103

Gauss_Seidel_Error_Table =

2×5 table

	Grid_Size_7	Grid_Size_15	Grid_Size_31	Grid_Size_63	Grid_Size_127
Error	0.00739613084115929	0.00171180901635561	0.000409732325993739	9.69550504498677e-05	2.02357722914874e-05
Error Reduced	0	4.32065187792118	4.17787152186223	4.22600291673921	4.79127008612633