

Time_Step	Eulers_Method	Exact_Solution	Difference1	Percent_Difference1
0.3	53.87285694	53.77354821	0.09930873	0.184679518
0.1	53.80771036	53.77354821	0.034162146	0.063529648
0.05	53.79075856	53.77354821	0.017210349	0.032005232
0.025	53.78218547	53.77354821	0.008637262	0.016062287
0.0125	53.77787483	53.77354821	0.004326624	0.008046008

Time_Step	RK_2	Exact_Solution	Difference2	Percent_Difference2
0.3	53.77034728	53.77354821	-0.003200926	-0.005952604
0.1	53.77321013	53.77354821	-0.000338075	-0.000628702
0.05	53.77346472	53.77354821	-8.35E-05	-0.000155265
0.025	53.77352746	53.77354821	-2.07E-05	-3.86E-05
0.0125	53.77354304	53.77354821	-5.17E-06	-9.62E-06

Time_Step	RK_4	Exact_Solution	Difference3	Percent_Difference3
0.3	53.77354622	53.77354821	-1.99E-06	-3.70E-06
0.1	53.77354819	53.77354821	-2.33E-08	-4.34E-08
0.05	53.77354821	53.77354821	-1.44E-09	-2.68E-09
0.025	53.77354821	53.77354821	-8.93E-11	-1.66E-10
0.0125	53.77354821	53.77354821	-5.63E-12	-1.05E-11

Time_Step	Eulers_Method	RK_2	RK_4	Exact_Solution
0.3	53.87285694	53.77034728	53.77354622	53.77354821
0.1	53.80771036	53.77321013	53.77354819	53.77354821
0.05	53.79075856	53.77346472	53.77354821	53.77354821
0.025	53.78218547	53.77352746	53.77354821	53.77354821
0.0125	53.77787483	53.77354304	53.77354821	53.77354821