

Forward Euler

0.25	1.0
0.5	1.015625
0.75	1.0771634615384615

Midpoint

0.25	1.00390625
0.5	1.0386563288750168
0.75	1.130031172601533

Trapezoid Predictor-Corrector

0.25	1.0078125
0.5	1.0461024033037836
0.75	1.1395576236942444

Actual Values

0.25	1.005194840151235
0.5	1.0408329997330663
0.75	1.1319231422671772

h	FE	M	TPC	BE
0.25	154143977.3242569	641279135547821.5	1273034496965597.5	0.24872239798412277
0.125	551910649.7221924	58600573635964.414	116733209813043.5	0.1249571730494394
0.0625	0.06254917522453679	0.06561593275248202	0.06879957927812569	0.06250581120521012
0.03125	0.031247908744388576	0.03125836898519061	0.03126249609001402	0.03126683527535244
0.015625	0.015621705069808985	0.015626619488041206	0.015626422624488878	0.015634990922414622
0.0078125	0.007810052067453039	0.007812819637403073	0.00781282829624408	0.007817682275269286
0.00390625	0.0039048326026055267	0.0039063297241013276	0.003906330950469614	0.0039089096051710195