

Comparisons Among the different Euler Methods. The chart entry is the exact value minus the approximation at $x=1$ for the given h values.

h value	$y'=y; y(0)=1$		$y'=x-y; y(0)=1$	
	0.0025	0.01	0.0025	0.01
Euler Method	0.003390084	0.013467999	0.0036942	0.000920658
Backwards Euler	-0.003405658	-0.013717198	-0.000918742	-0.003663542
Improved Euler 1	-1.41577E-06	-2.26528E-05	3.83208E-07	6.13139E-06
Improved Euler 2	2.82624E-06	4.49659E-05	-7.67854E-07	-1.23551E-05