

t	y-Euler	y-exact	error
0.0000	0.500000	0.500000	0.00e+00
0.1000	0.650000	0.657415	-7.41e-03
0.2000	0.814000	0.829299	-1.53e-02
0.3000	0.991400	1.015071	-2.37e-02
0.4000	1.181540	1.214088	-3.25e-02
0.5000	1.383694	1.425639	-4.19e-02
:			
1.8000	4.604050	4.815176	-2.11e-01
1.9000	4.840455	5.067053	-2.27e-01
2.0000	5.063500	5.305472	-2.42e-01

Max error = 2.42e-01 for h = 0.100000

$$y' = y + t^2 + 1$$

$$y(t) = (t + 1)^2 - 0.5e^t$$

