## MATLAB project 1

Consider the initial value problem
$d y / d t=y(2-t y), y(0)=1$
Use Euler's method to determine the approximate values of the solution at $\mathrm{t}=1,1.5,2$, and 2.5 with grid sizes:
(a) $\mathrm{h}=0.01$
(b) $\mathrm{h}=0.05$
(c) $\mathrm{h}=0.10$

For your work to be complete, you must list your results in tabular form, similar to Table 2.7.3 on p. 107 in your book. You must also include in your report a printout of the code that you used for obtaining the above results.

The project must be completed and handed to your instructor by Monday, March 4.

