Group:A/B/C	No (in list)	Student ID	Full Name (Surname, Name)	HW
				07

Use the Runge-Kutta-Fehlberg method with tolerance $TOL = 10^{-6}, hmax = 0.5,$ and $hmin = 0.05$ to approximate the solutions to the following initial-value problems. Compare the results to the actua lvalues.

1. $y' = y/t - (y/t)^2,\ 1 \le t \le 4,\ y(1) = 1;$

   actual solution $y(t) = 1/(1 + \ln t)$.

2. $y' = (2 + 2t^3)y^3 - ty,\ 0 \le t \le 2,\ y(0) = 1/3;$

   actual solution $y(t) = (3 + 2t^2 + 6e^{t^2})^{-1/2}$.