2019 MATH 3201 Prac Week 5

- (1) Solve the IVP $y'(t) = y^2 y^3$, y(0) = 3 using the explicit Euler method with various step sizes $h = 0.5, 0.4, \dots, 0.01$
- (2) Solve the initial value problem $y'(t)=\frac{2}{t}y+t^2e^t,\ 1\leq t\leq 2,\ y(1)=0$ using RK2 or midpoint and RK4.
- (3) Solve the IVP y'(t) = -5y(t), y(0) = 2 using the explicit Euler method with tep size h = 0.5.
- (4) Work on your assignment.