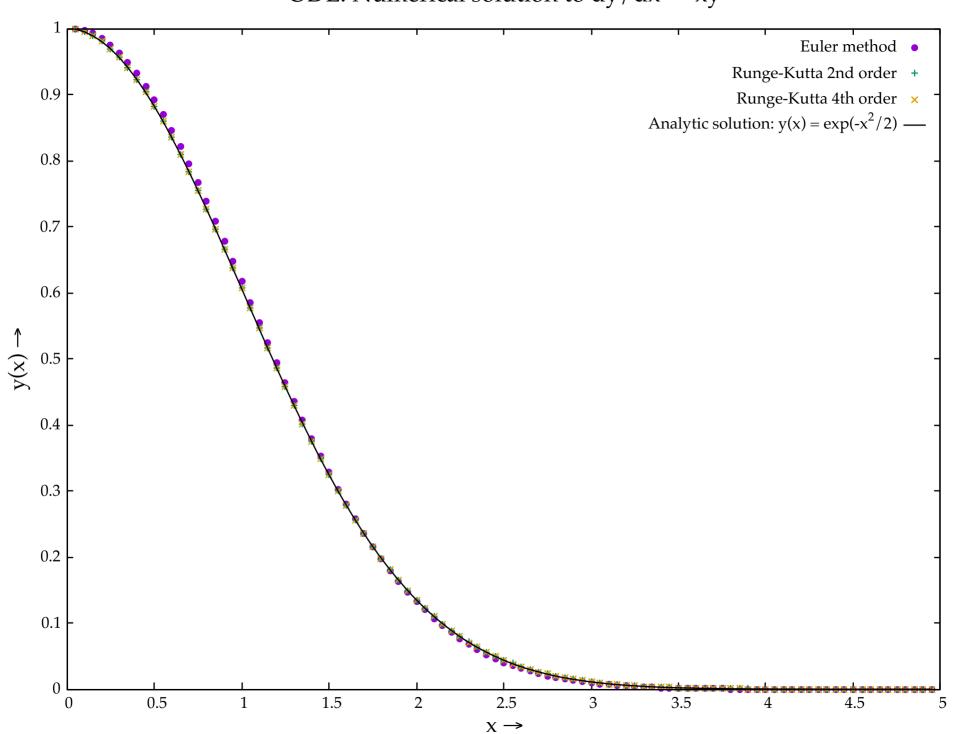
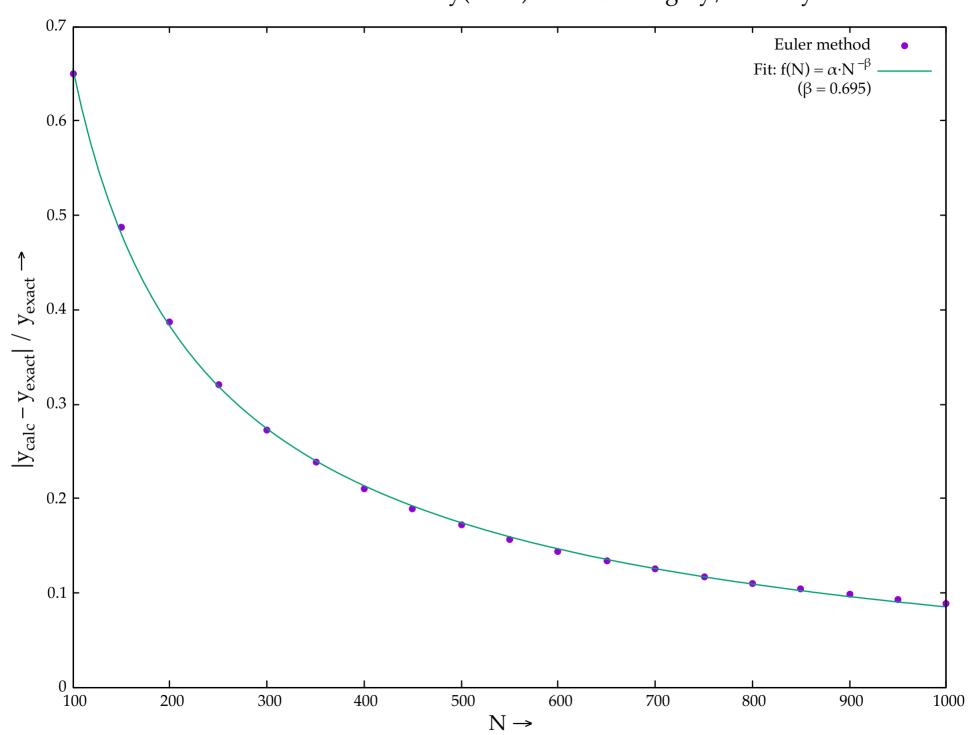
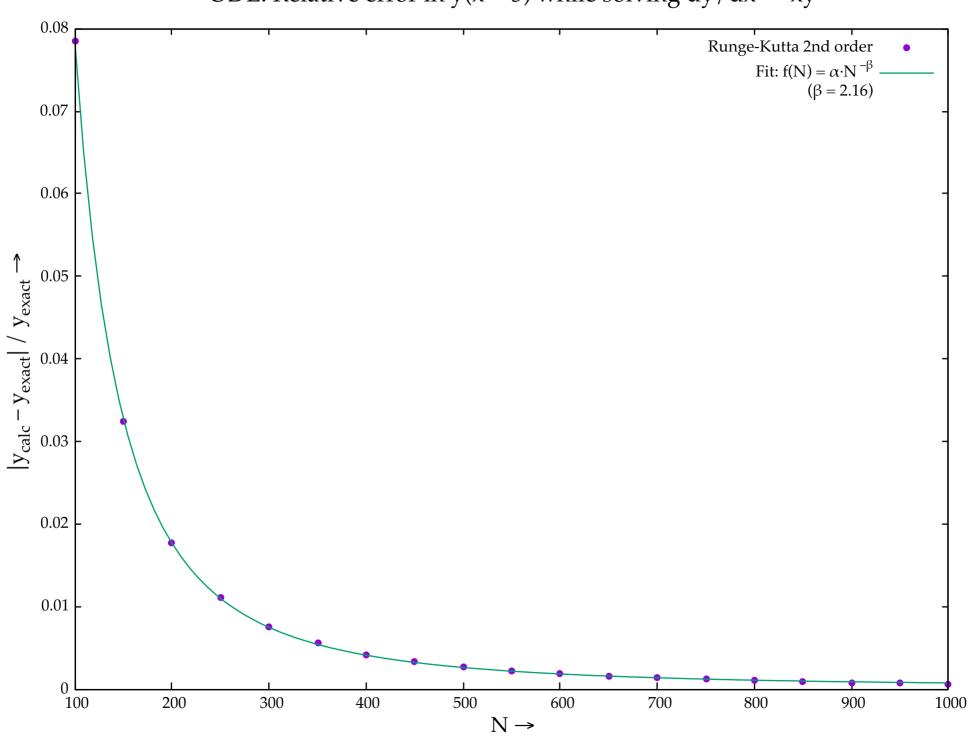
ODE: Numerical solution to dy/dx = -xy



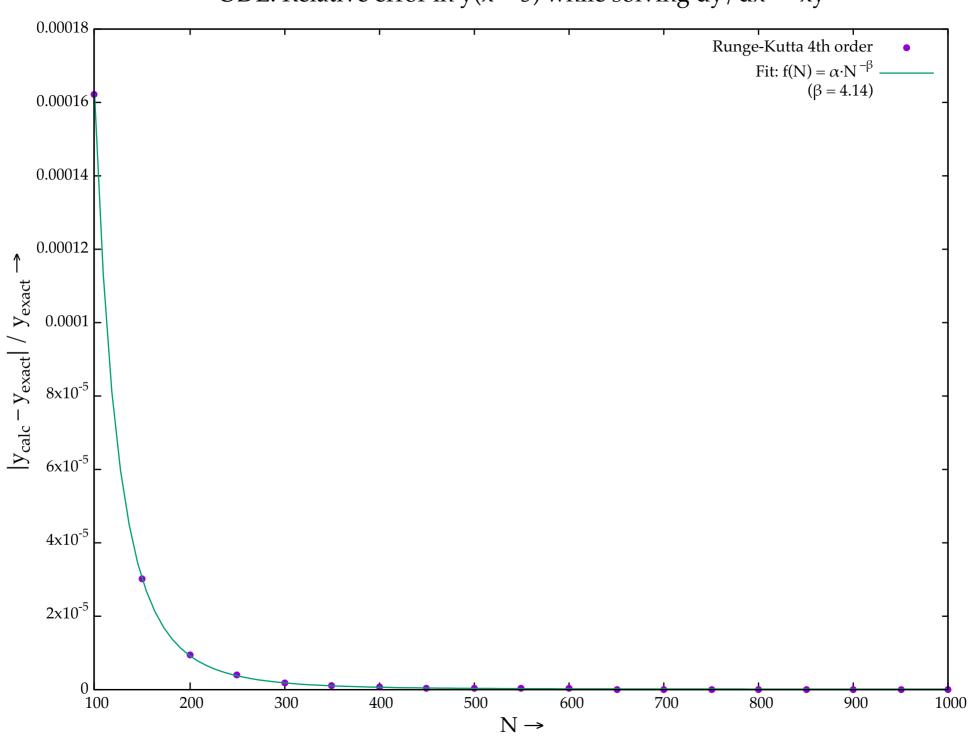
ODE: Relative error in y(x = 5) while solving dy/dx = -xy



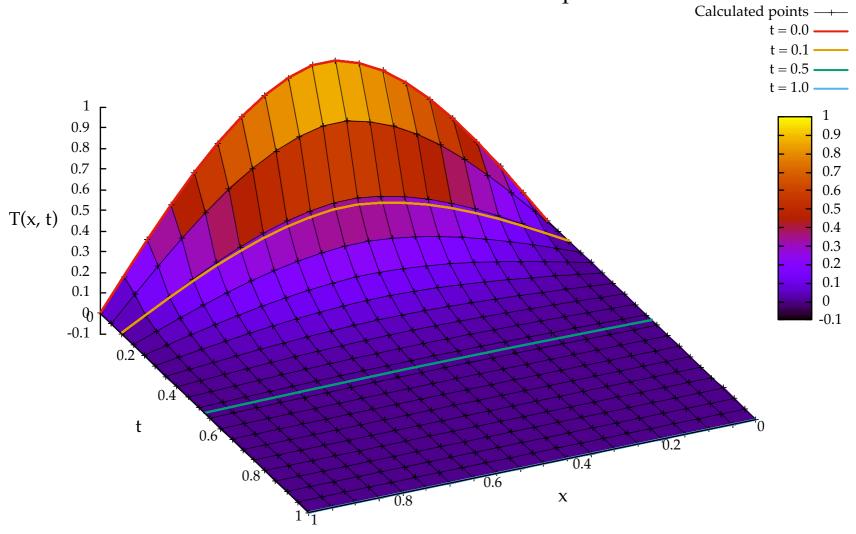
ODE: Relative error in y(x = 5) while solving dy/dx = -xy



ODE: Relative error in y(x = 5) while solving dy/dx = -xy



PDE: 1 dimensional Diffusion Equation



$$\Delta t/(\Delta x)^2 = 4$$