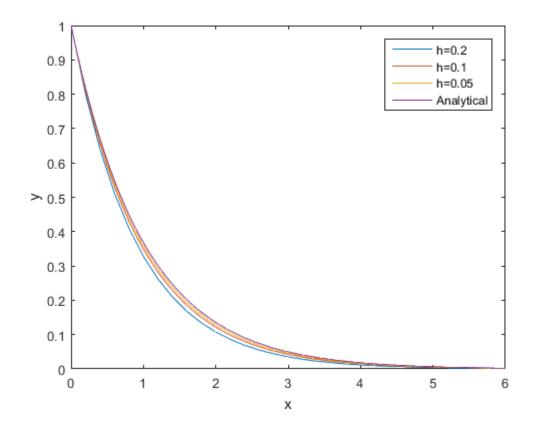
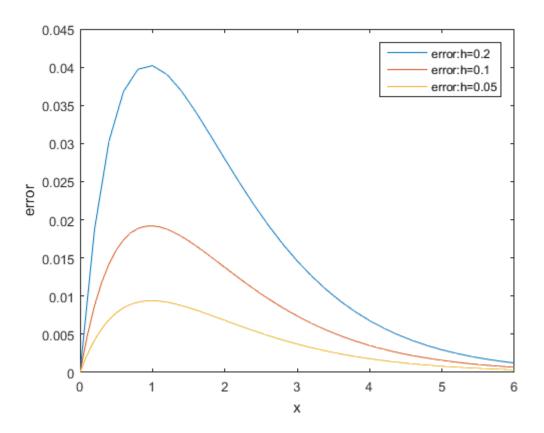
Computational and Numerical methods Lab Assignment

Name: AGAM SHAH ID: 201501099 Name: YAGNESH CHAUHAN ID: 201501206

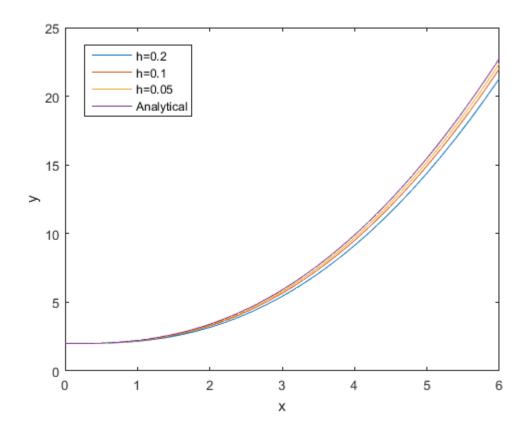
1 Euler's Method to Solve Ordinary Differential Equations

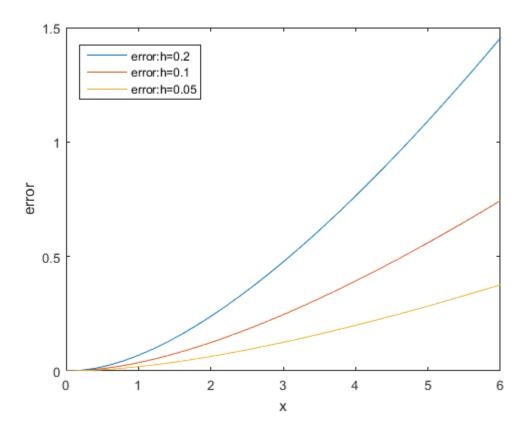
1.1
$$Y'(x) = -Y(x), Y(0) = 1$$





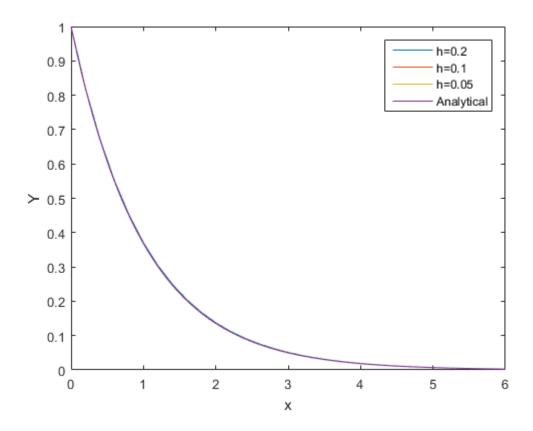
1.2
$$Y'(x) = [Y(x) + x^2 - 2]/(x+1), Y(0) = 2$$

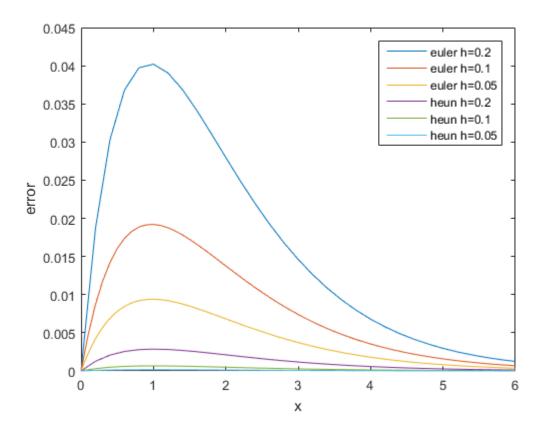




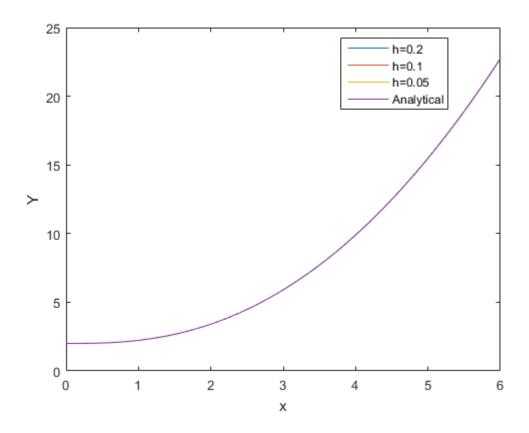
2 The Trapezoidal Method to Solve Ordinary Differential Equations

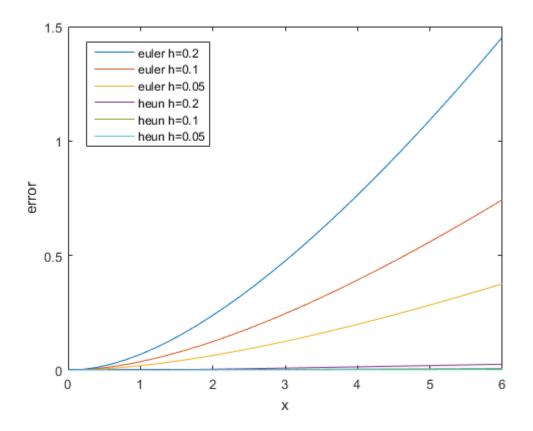
2.1
$$Y'(x) = -Y(x), Y(0) = 1$$





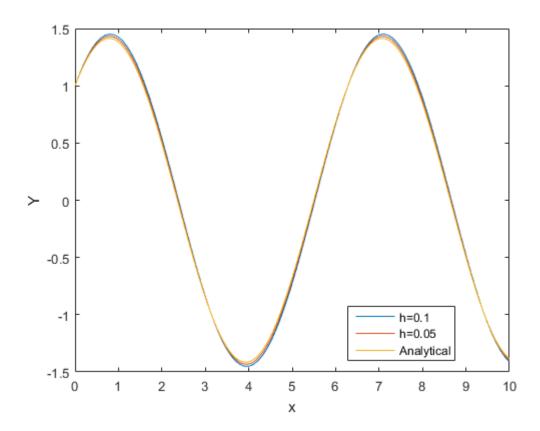
2.2
$$Y'(x) = [Y(x) + x^2 - 2]/(x+1), Y(0) = 2$$

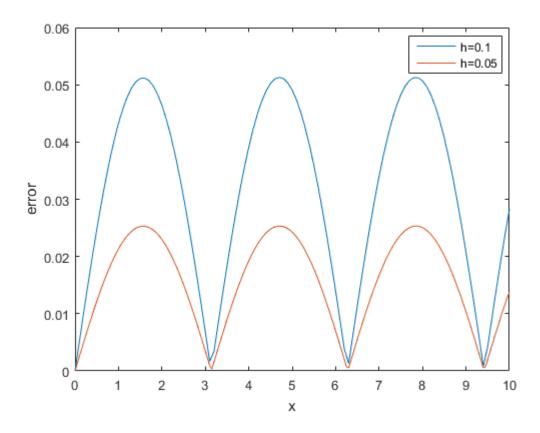




3 Taylor's Method to Solve Ordinary Differential Equations

3.1 first order





3.2 second order

