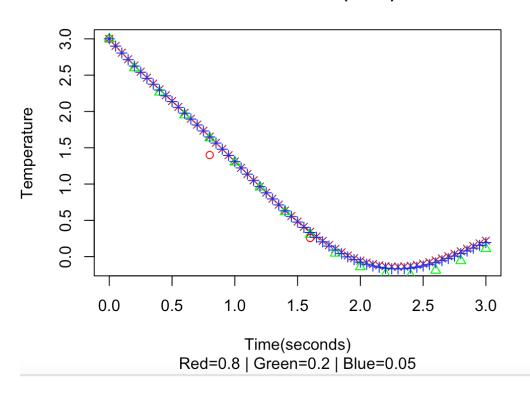
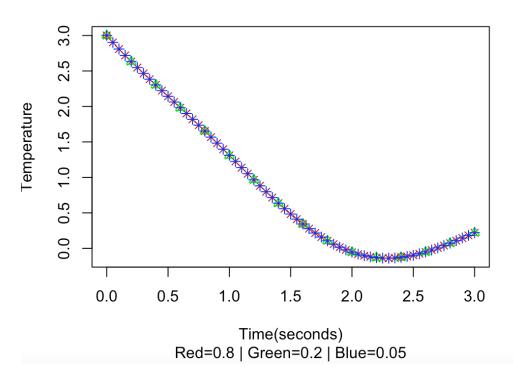
Euler's Method (ODE)



RK4 Method (ODE)



- Questions A:
 - Which method has the highest accuracy?
 - RK4 Method
 - Which values for h have the highest accuracy?
 - H = 0.05
 - What evidence exists to support your choices for the previous questions?
 - The method using the 0.05 has the highest accuracy as it provides more points to define the curve.
- Questions B:
 - What is a differential equation?
 - A differential equation is an equation when there is change (steps) in the equation as you move forward using x / y points.
 - What makes an ordinary differential equation, ordinary?
 - An ODE is a type of differential equation that uses ordinary derivatives instead of partial derivatives.
 - What is the purpose of the Runge-Kutta methods of numerical analysis?
 - Runge-Kutta methods generate an accurate solution without the need to calculate higher order derivatives.