Example: Convergence of IVP Solvers

The IVP is

\[ \frac{dy}{dt} = y, \quad \text{for } 0 < t, \]

where \( y(0) = 1 \). The error in this case is the difference in the computed and exact solutions at \( t = 2 \), that is,

\[ Error = |y(2) - y_n| \]