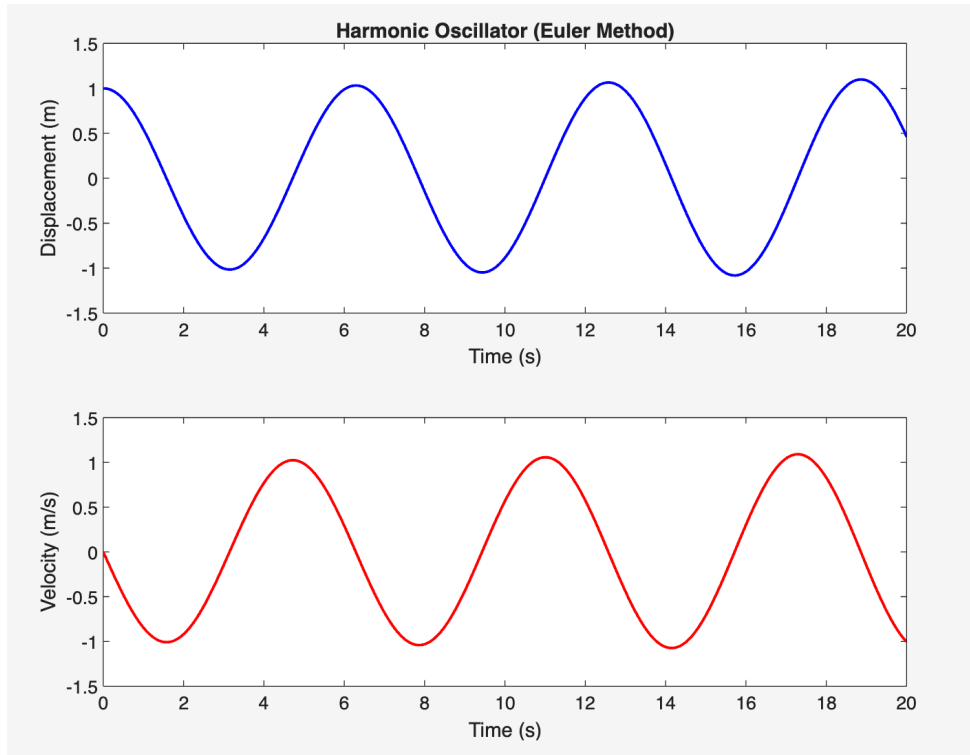# Problem 3
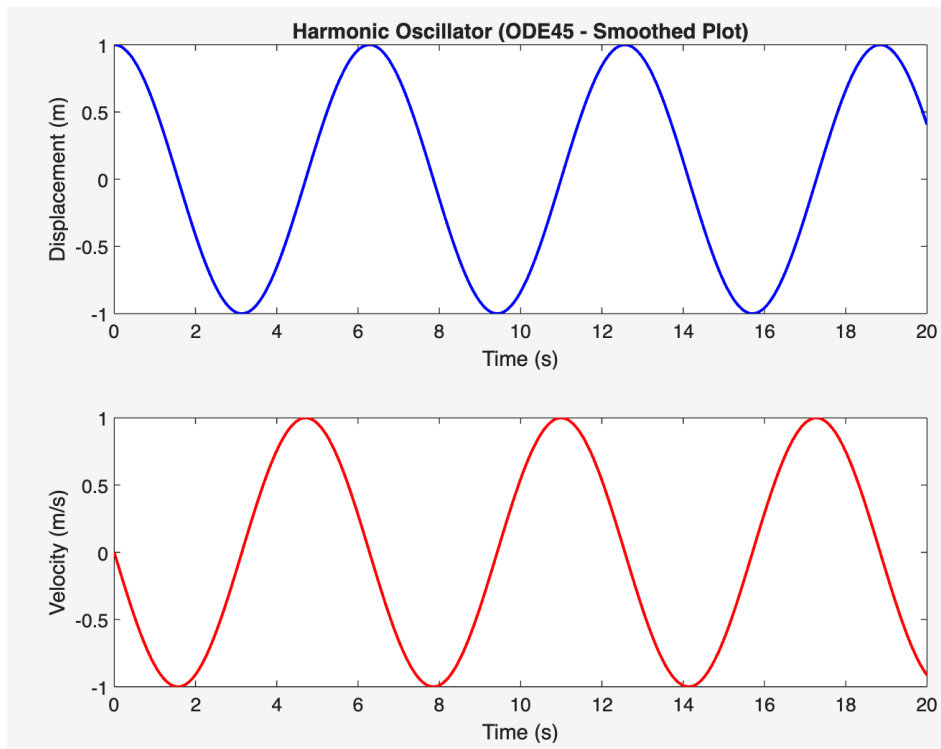
(a), (b) 1D Harmonic oscillator position and velocity (Euler method)
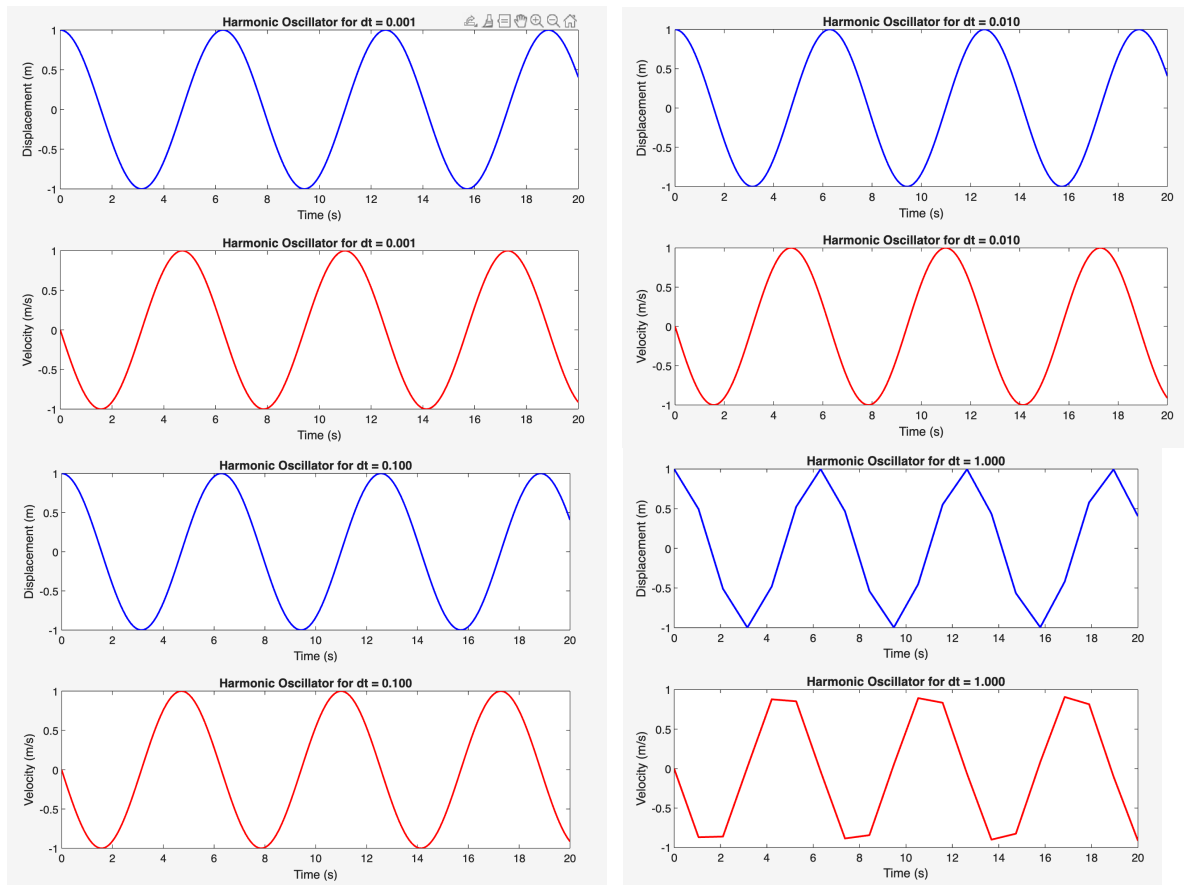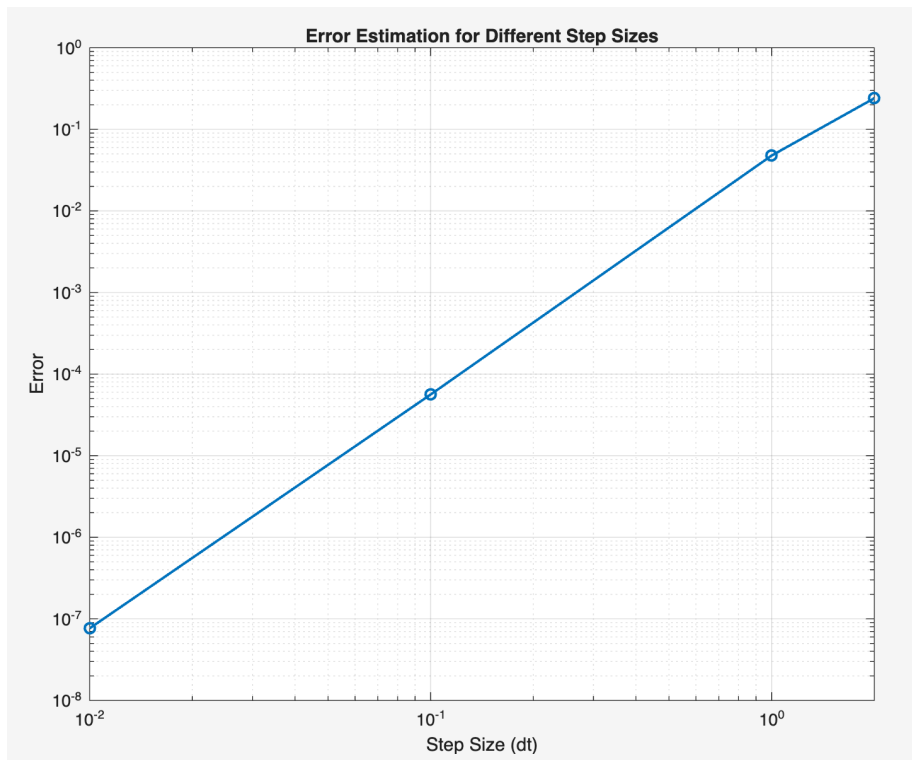

(c) ODE 45
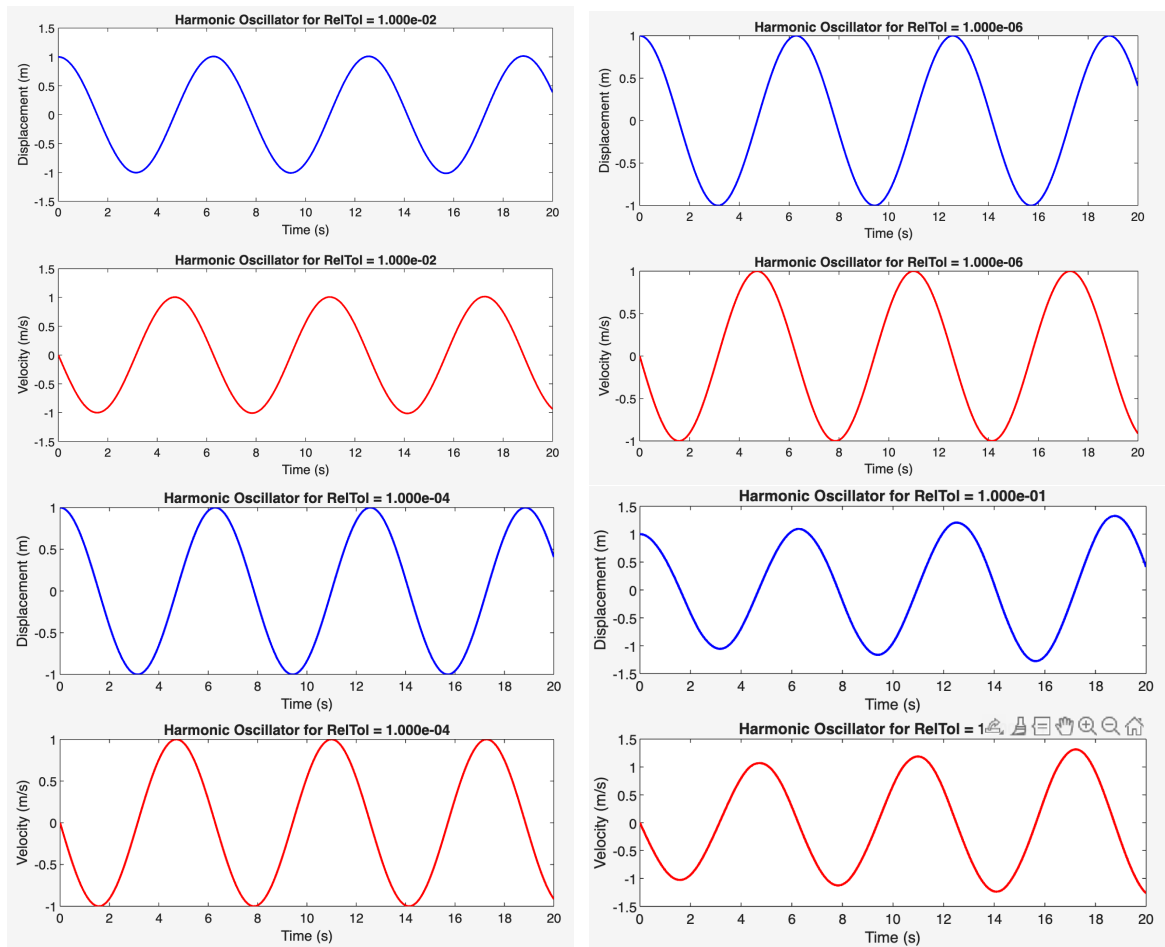

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(d) ODE 45 step size comparison

Error as a function of step size:

(e) ODE 45 tolerances comparison

Error variation with tolerance