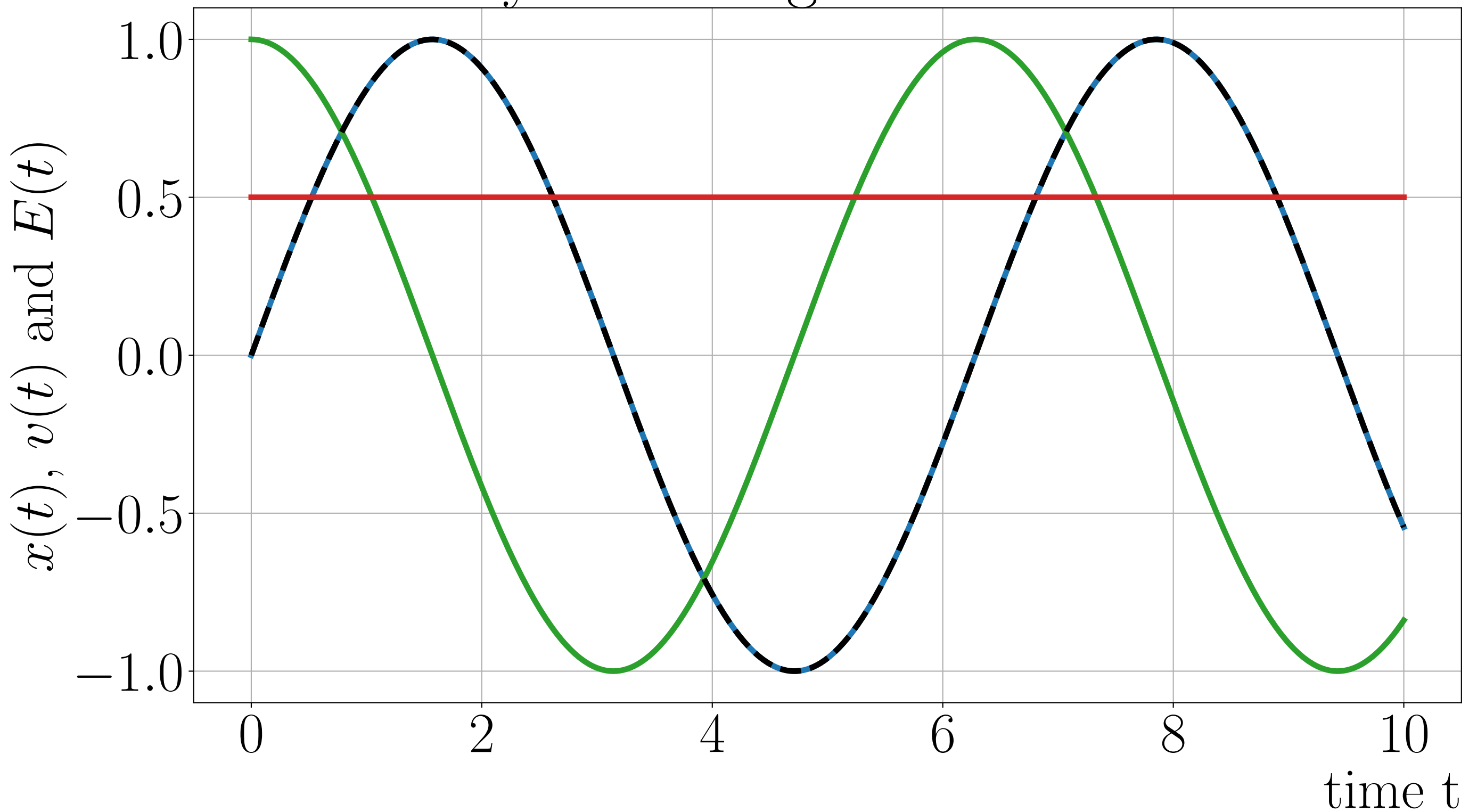


Velocity Verlet algorithm - $\Delta t = 0.01$



Position - $x(t)$

Position - $x_{theory}(t)$

Velocity - $v(t)$

Energy - $E(t)$