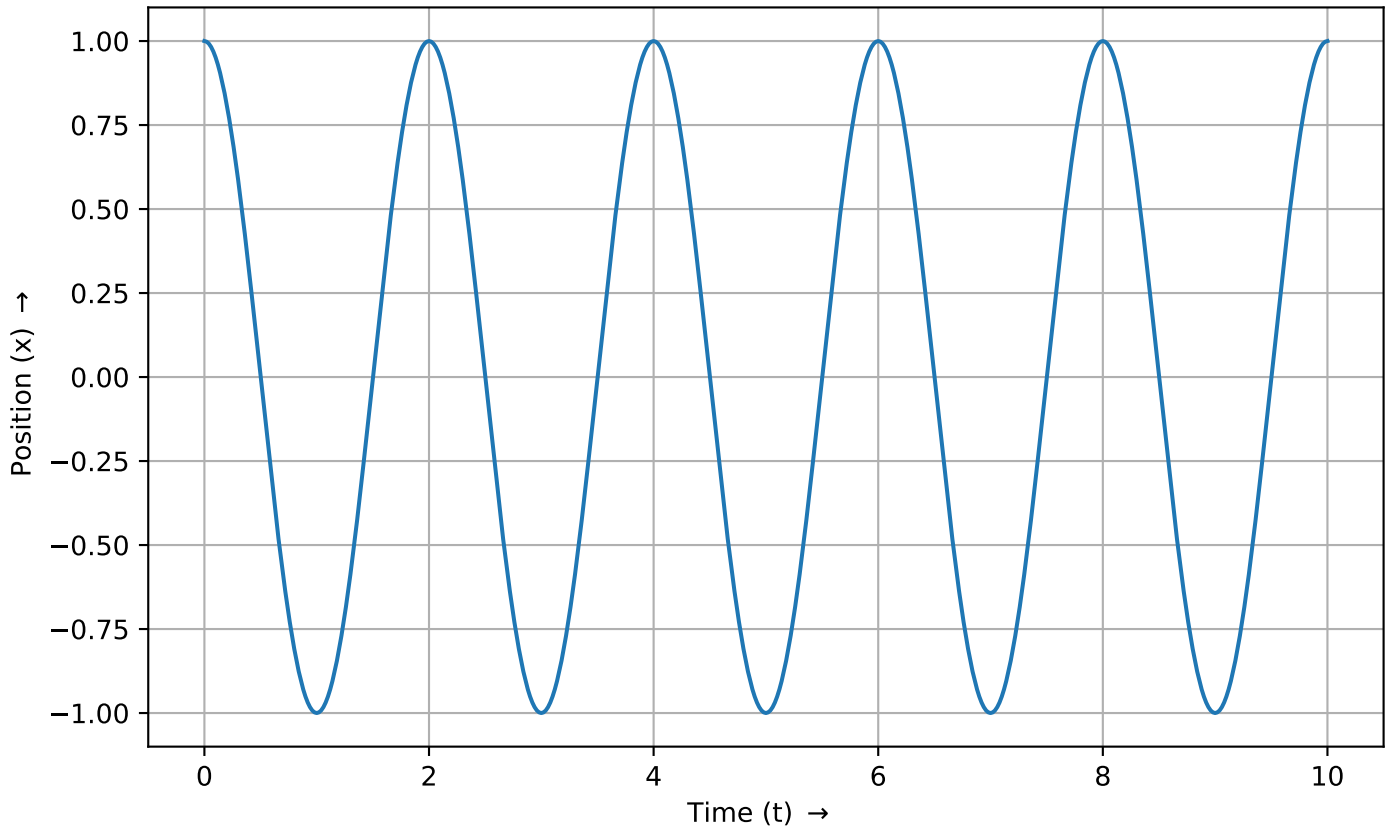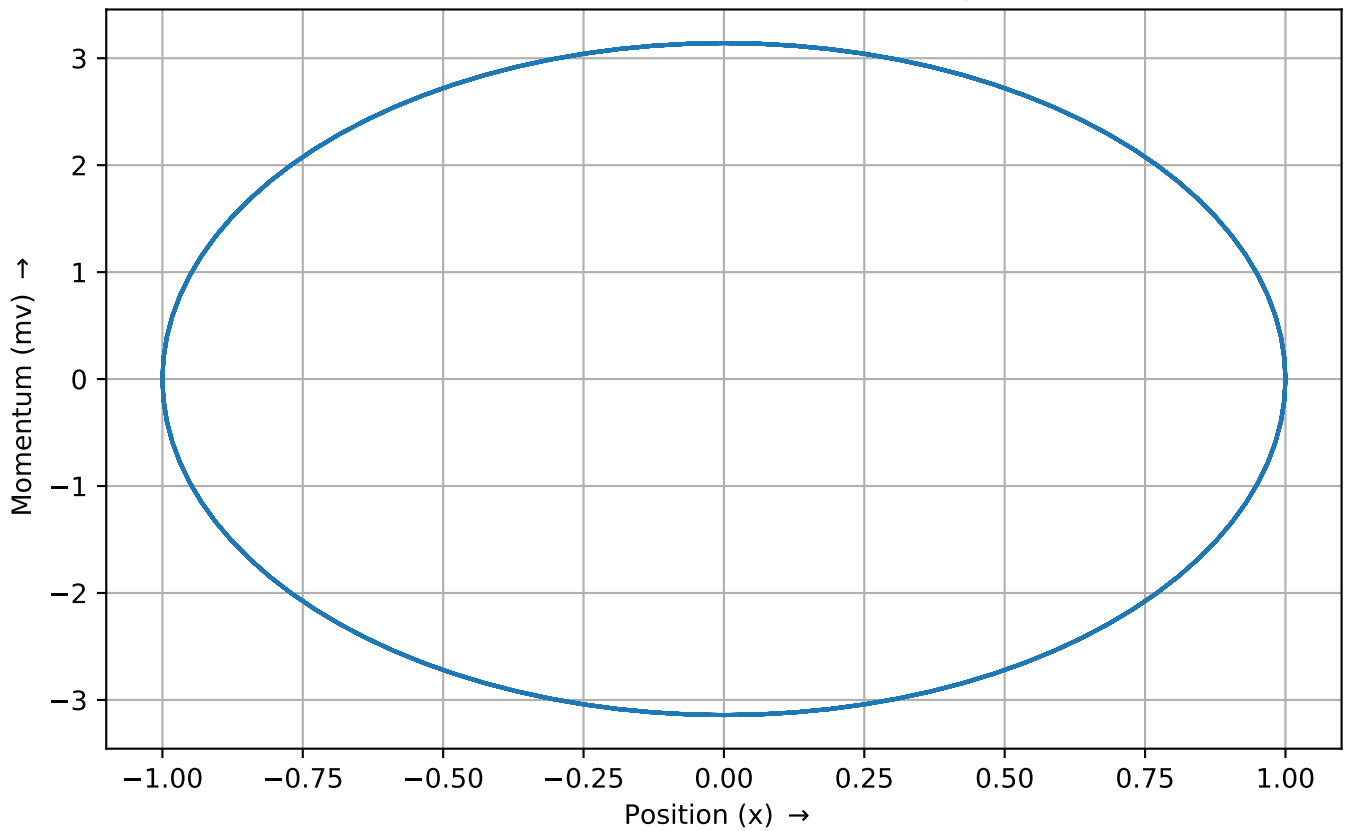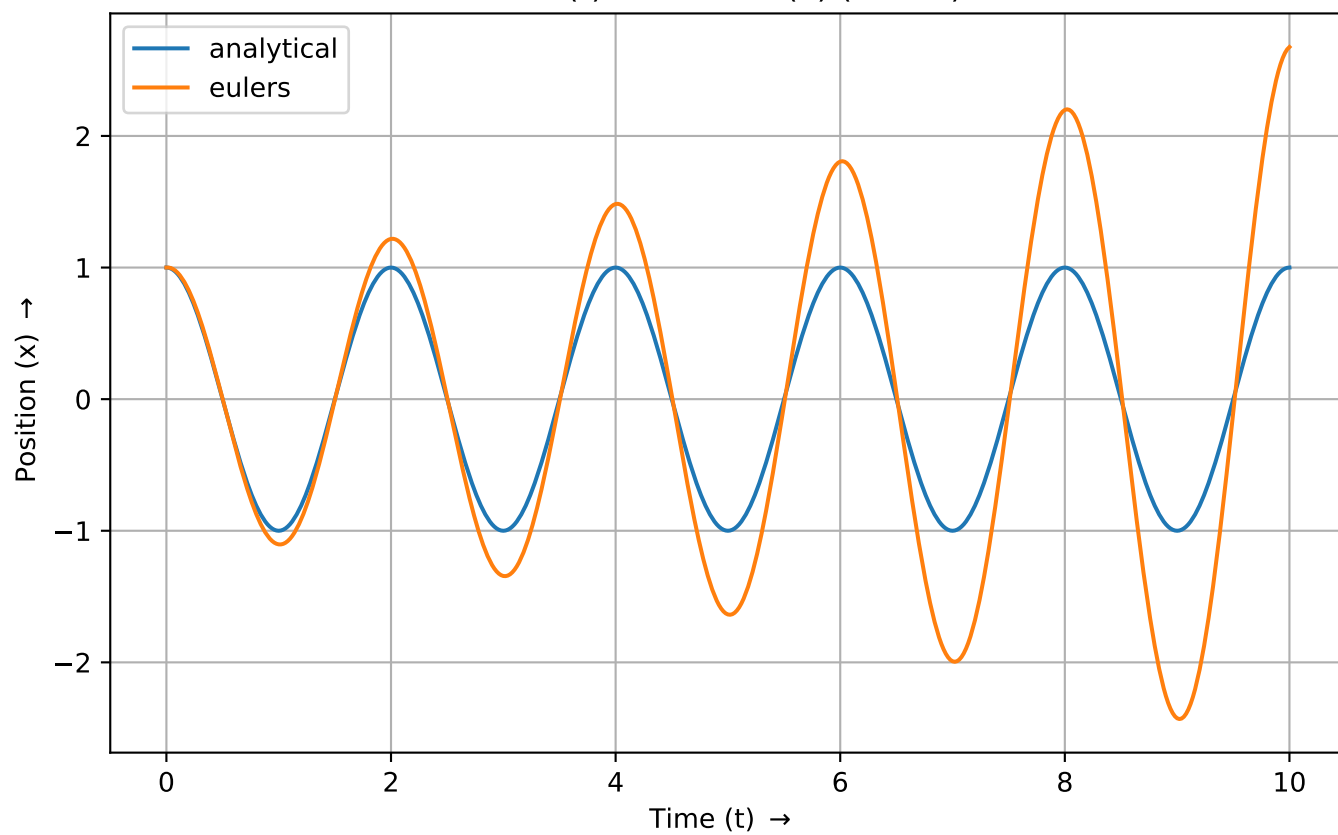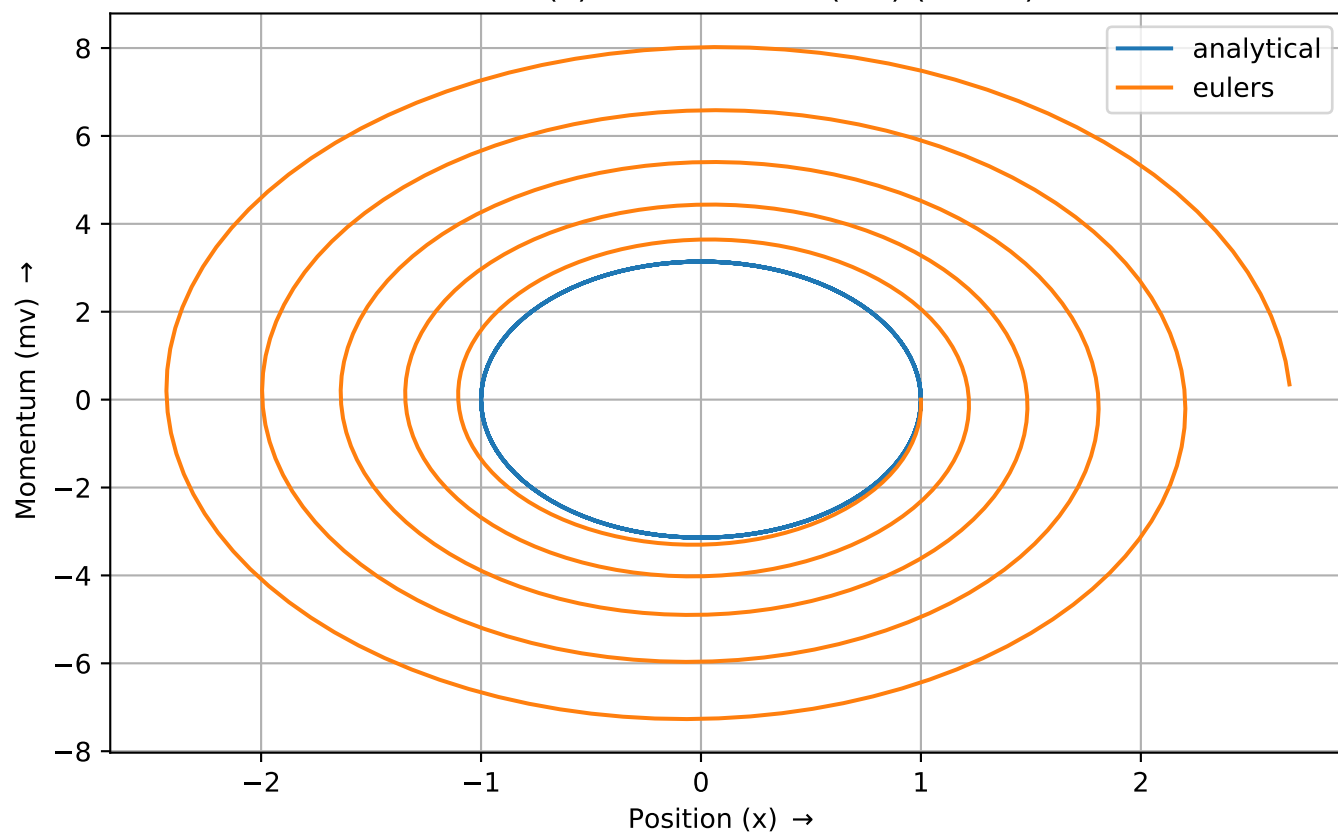time(t) vs Position(x) (analytical)
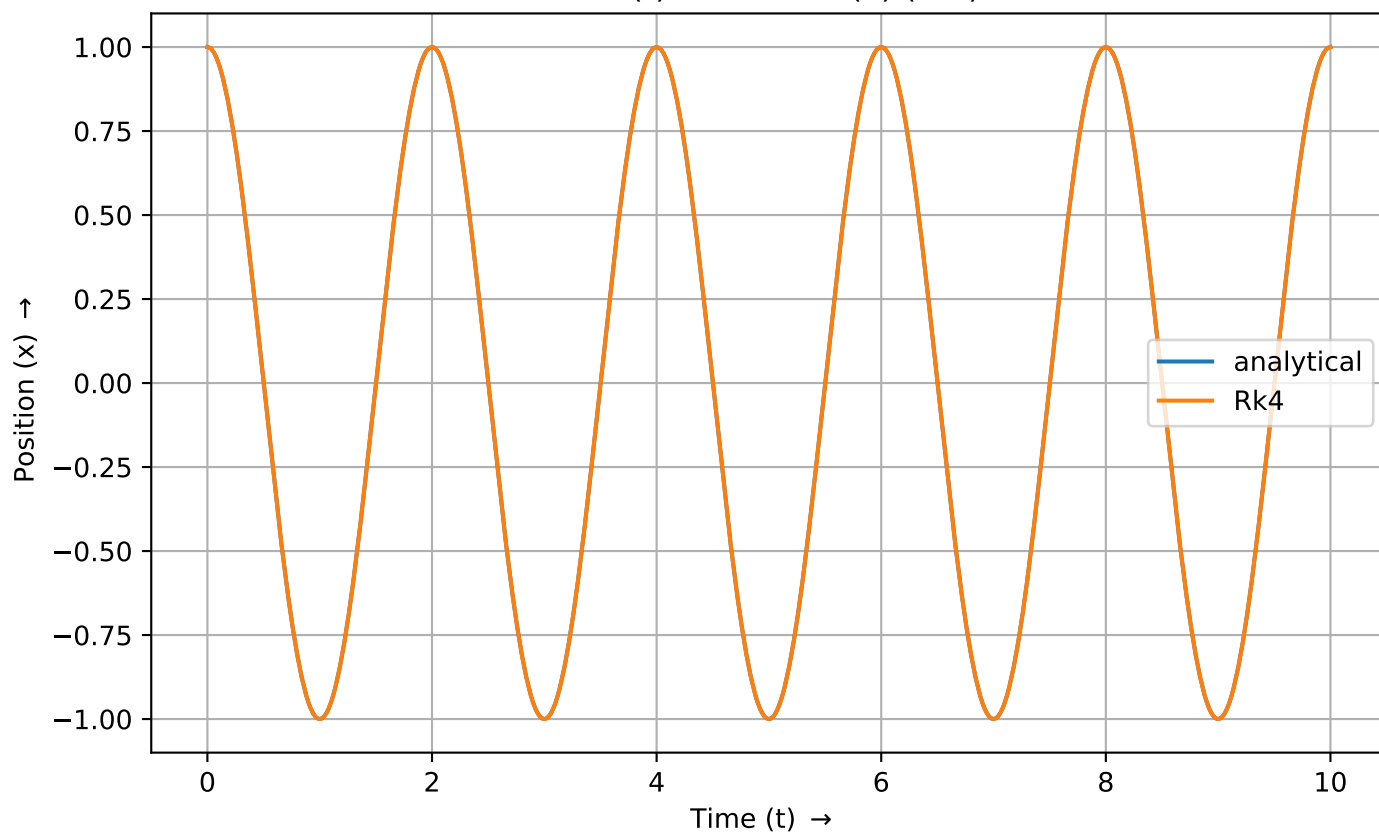
Position(x) vs Momentum(mv) (analytical)

time(t) vs Position(x) (eulers)

Position(x) vs Momentum(mv) (eulers)

time(t) vs Position(x) (rk4)

Position(x) vs Momentum(mv) (rk4)