The Approach to Chaos

- Period doubling can occur

Example
Chaos_DDB.nb

Sensitivity to Initial Conditions

- Let’s see how small variations in the initial conditions affect the solutions of the DDP

Example
chaos_logplots.nb

Example
chaos_sensitivity.nb
A Strange Attractor

- One interesting chaotic system is the van der Pol Oscillator

Example

chaos_venderpol.nb