Lab 6

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Nonlinear Dynamic Systems, Fall 2020

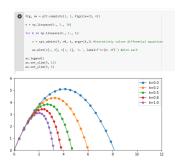
Projectile Motion

Experiment goals:

- Introduce dynamical systems and flows
- Model simple trajectory and observe initial condition changes

Trajectories

In the lab we simulated projectile motion through solving the differential equations that arise when applying newton's laws to this case.



Analysis and Conclusion

In conclusion, this system does not demonstrate chaotic behavior. This continuous model was solved by solving differential equations of the motion of the projectile.