

APMA 0350 – MINI PROJECT

Instructions: What is your favorite ODE? Where does it come from? What are its applications? Why do you like it?

Formatting: Your report should be in pdf format and at least 1 page long (single-spaced) or 2 pages long (double-spaces) 12 pt font, with 1 inch margins. You do not need to include any pictures or references.

Make sure to write down the ODE. Do **NOT** just copy-paste a Wiki article, but it's ok to paraphrase it. And do not use ChatGPT. You do **NOT** need to solve your ODE.

It cannot be an ODE that was extensively discussed in class, like the logistic equation, but it's ok one that we briefly mentioned, like the pendulum

List of prohibited topics:

- Logistic equation
- Newton's law of cooling
- SIR Model **unless** you give me a non-COVID application
- Any PDE example
- Basic examples like $y' = ky$ or $y'' - 5y' + 6y = 0$
- Examples without an application