ME 3050 Lecture - Introduction to Analysis
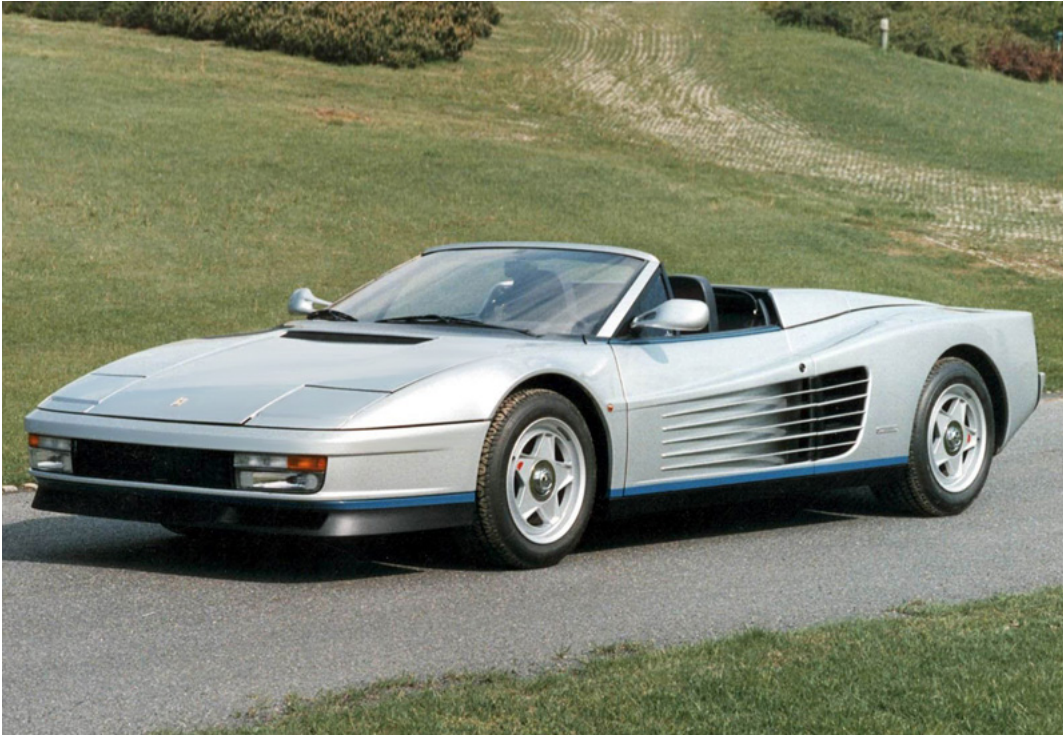
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- We spent the last two weeks deriving differential equations.

- Now What?

- **Lecture This Week**

  - Trial Solution - 1st 2nd Order - Free Response

  - Trial Solution - $f(t)$ - General Forms

  - *re*Introduce Laplace Transform - $\mathcal{L}\{y(t)\}$

- **Consider the system shown below. Make? Model?**

- **Response of 1st Order System with <u>Constant Input</u>**

- **Response of 2nd Order System with <u>Constant Input</u>**