

ME 3050 Lecture - Introduction to Analysis

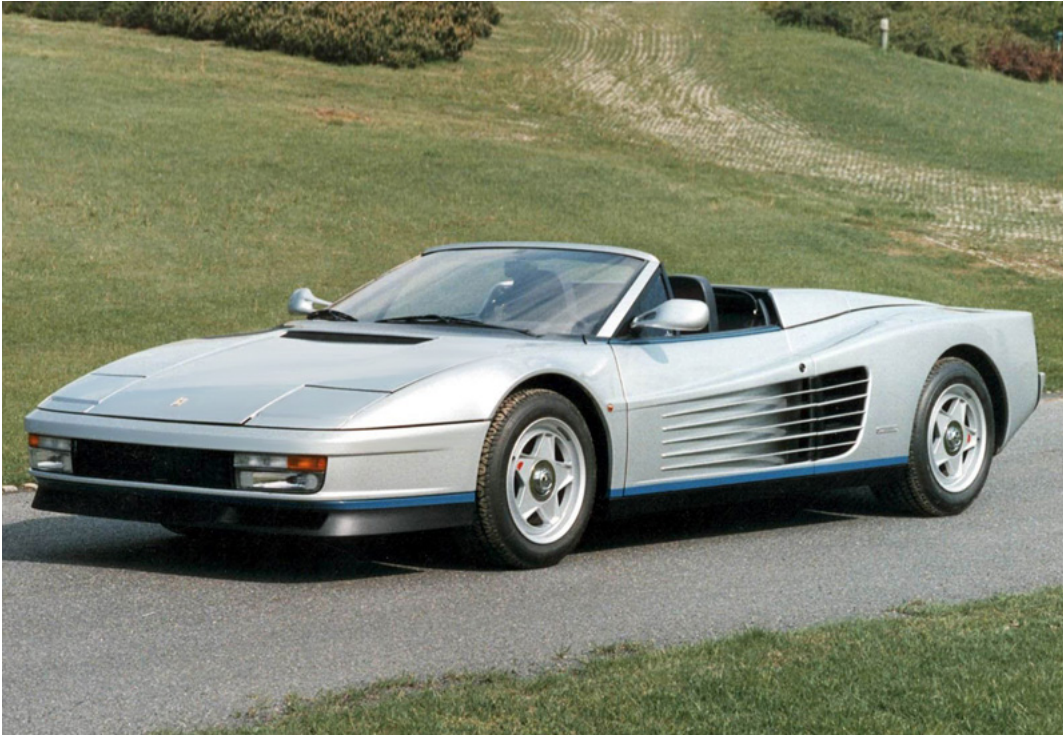
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- We spent the last two weeks deriving differential equations.
- Now What?

- **Lecture This Week**

- Trial Solution - 1st 2nd Order - Free Response
- Trial Solution - $f(t)$ - General Forms
- reIntroduce Laplace Transform - $\mathcal{L}\{y(t)\}$

- Consider the system shown below. Make? Model?



- Response of 1^{st} Order System with Constant Input

- Response of 2^{nd} Order System with Constant Input