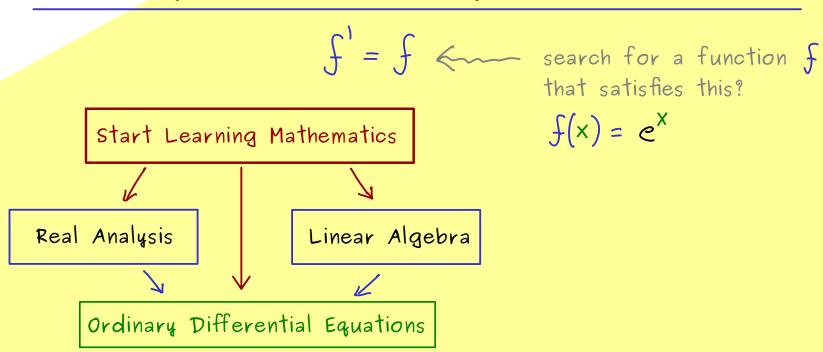
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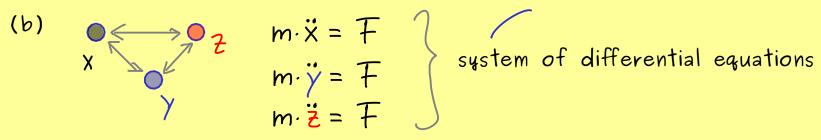
The Bright Side of Mathematics



Ordinary Differential Equations - Part 1



Other examples: (a) $\ddot{X} = -\omega^2 X$ (harmonic oscillator) (second order derivatives)



Topics:

- system of ordinary differential equations (ODE)
- solution methods
- existence and uniqueness of solutions
- linear ordinary differential equations (matrix exponential function)