Intro

Tuesday, March 9, 2021 8:58 AM

Many engineering & physics questions can be expressed by ODES

- -Springs - Pendulum -Temperature

-Predator-Prey & many more

You an measuring concentration of drug in the blood stream, CET), as to body metabolizes it. The drug decoup at a rate proportional to current consentation.

dc = - K c(t) = 3 of Eq. rate of dringe deary T want concentration of concentration not promise of large at time t.

of drug gaving

C(0) = 100 mg/L = initial conditions

This is an example of on GDE teat we can solv.

But often we can't solve analyteally need newercal methods to approximate solution.