

Series Solutions Of Linear Differential Equations

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The general form of a linear ordinary differential linear equation of order 1 is, after having divided by the coefficient of y' , $y' = p(x)y + q(x)$. In the case of a homogeneous equation (that is $q(x)$ is the zero function), the equation may be rewritten as (omitting " (x) " for sake of simplification) $y' = 0$, that may easily be integrated as

Linear differential equation - Wikipedia

In this chapter we will look at several of the standard solution methods for first order differential equations including linear, separable, exact and Bernoulli differential equations. We also take a look at intervals of validity, equilibrium solutions and Euler's Method. In addition we model some physical situations with first order differential equations.

Differential Equations - First Order DE's

In mathematics, the power series method is used to seek a power series solution to certain differential equations. In general, such a solution assumes a power series with unknown coefficients, then substitutes that solution into the differential equation to find a recurrence relation for the coefficients.

Power series solution of differential equations - Wikipedia

In this chapter we will start looking at second order differential equations. We will concentrate mostly on constant coefficient second order differential equations. We will derive the solutions for homogeneous differential equations and we will use the methods of undetermined coefficients and variation of parameters to solve non homogeneous differential equations.

Differential Equations - Second Order DE's

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The harmonic oscillator, which we are about to study, has close analogs in many other fields; although we start with a mechanical example of a weight on a spring, or a pendulum with a small swing, or certain other mechanical devices, we are really studying a certain differential equation. This equation appears again and again in physics and in other sciences, and in fact it is a part of so many ...

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