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On The Dirac Equation In
Algebraic equation for the Laplace transform Laplace transform of the solution L Algebraic solution, partial fractions Bernd Schroder¨ Louisiana Tech University, College of Engineering and Science The Laplace Transform of The Dirac Delta Function

The Laplace Transform of The Dirac Delta Function
Dirac’s cautionary remarks (and the efficient simplicity of his idea) notwithstanding,somemathematicallywell-bredpeopledidfromtheoutset takestrongexceptiontotheδ-function. Inthevanguardofthisgroupwas JohnvonNeumann,whodismissedtheδ-functionasa“fiction,”andwrote hismonumentalMathematische Grundlagen der Quantenmechanik2 largelyto

DIRAC DELTA FUNCTION IDENTITIES - Reed College
For the sake of completeness we’ll close out this section with the 2-D and 3-D version of the wave equation. We’ll not actually be solving this at any point, but since we gave the higher dimensional version of the heat equation (in which we will solve a special case) we’ll give this as well. The 2-D and 3-D version of the wave equation is,

Differential Equations - The Wave Equation
the Dirac equation for spin-1/2 particles the Bargmann–Wigner equations for particles of any spin In quantum field equations, it is common to use momentum components of the particle instead of position coordinates of the particle's location, the fields are in momentum space and Fourier transforms relate them to the position representation.

Field equation - Wikipedia
An ordinary differential equation (ODE) is an equation containing an unknown function of one real or complex variable x, its derivatives, and some given functions of x.The unknown function is generally represented by a variable (often denoted y), which, therefore, depends on x.Thus x is often called the independent variable of the equation. The term "ordinary" is used in contrast with the term ...