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CHAPTER 2. Homogeneous linear ODEs. 2.1. The Principle of Superposition Principle of Superposition for linear homogeneous differential equations. Consider the linear, second order, homogeneous, ordinary differential equation $a(t) \frac{d^2y}{dt^2} + b(t) \frac{dy}{dt} + c(t)y = 0$, (2.1) where $a(t)$, $b(t)$ and $c(t)$ are known functions.

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The graph of a function in two variables is the surface in the 3-space given by the equation $y = f(x_1, x_2)$. The graph of a linear form is a plane passing through the origin $(x_1, x_2, y) = (0, 0, 0)$. The curves on the plane where a given function of two variables is constant, are called levels or level curves of the function.

Linear Algebra and Differential Equations Alexander Givental

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