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large number of mathematicians became actively involved in the investigation of numerous problems presented by partial differential equations.

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“ ... partial differential equations are the

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basis of all physical theorems. In the theory of sound in gases, liquid and solids, in the investigations of elasticity, in optics, everywhere partial differential equations formulate basic laws of nature which can be checked against experiments.” Bernhard Riemann

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(diffusion equation) These are second-order differential equations, categorized according to the highest order derivative. The RLC circuit equation (and pendulum equation) is an ordinary differential equation, or ode, and the diffusion equation is a partial differential equation, or pde.

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partial derivatives of a multivariable function.. The function is often thought of as an "unknown" to be solved for, similarly to how x is thought of as an unknown number, to be solved for, in an algebraic equation like $x^2 - 3x + 2 = 0$.

...

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