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In mathematics a partial differential equation pde is an equation which computes a function between various partial derivatives of a multivariable function the function is often thought of as an unknown to be solved for similar to how x is thought of as an unknown number to be solved for in an algebraic equation like $x^2 + 3x + 2 = 0$.

A partial differential equation pde describes a relation between an unknown function and its partial derivatives pdes appear frequently in all areas of physics.

An equation for an unknown function f involving partial derivatives of f is called a partial differential equation essentially all fundamental laws of nature are partial differential equations as they combine various rate of changes.

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