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In mathematics, a
partial differential
equation (PDE) is an
equation which

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imposes relations between the various 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 $x^2 - 3x + 2 = 0$

Partial differential equation - Wikipedia

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homogeneous. A third way of classifying differential equations, a DFQ is considered homogeneous if & only if all terms separated by an addition or a subtraction operator include the dependent variable; otherwise, it's non-homogeneous. A simple way of checking this property is by shifting all of the terms that include the dependent variable to the left-side of an

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This technique is hereafter provided and supported with necessary illustrations, together with some attached examples.

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