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

Homogeneous vs. Non-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 equal ...

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In this paper, we discuss a new method employed to tackle non-linear partial differential equations, namely Double Elzaki Transform Decomposition Method (DETFM). This method is a combination of the Double ELzaki Transform and Adomian Decomposition Method. This technique is hereafter provided and supported with necessary illustrations, together with some attached examples.

Double Elzaki Transform Decomposition Method for Solving ...

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