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10.1 Modeling with Differential Equations

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Differential Equations - Modeling with First Order DE's

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Differential Equations Applications – Significance and Types

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Differential equations have wide applications in various engineering and science disciplines. In general, modeling of the variation of a physical quantity, such as temperature,pressure,displacement,velocity,stress,strain,current,voltage,or concentrationofapollutant,withthechangeoftimeorlocation,orbothwould result in differential equations.

DIFFERENTIAL EQUATIONS FOR ENGINEERS

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General Differential Equations. Consider the equation $y' = 3x^2$, which is an example of a differential equation because it includes a derivative. There is a relationship between the variables x and y : y is an unknown function of x . Furthermore, the left-hand side of the equation is the derivative of y .

9.1: Modeling with Differential Equations - Mathematics ...

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