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Application 1 : Exponential Growth - Population Let $P(t)$ be a quantity that increases with time t and the rate of increase is proportional to the same quantity P as follows $dP/dt = kP$ where dP/dt is the first derivative of P , $k > 0$ and t is the time. The solution to the above first order differential equation is given by $P(t) = A e^{kt}$

Applications of Differential Equations

APPLICATIONS OF DIFFERENTIAL EQUATIONS 5 We can solve this differential equation using separation of variables, though it is a bit difficult. We begin by multiplying through by P $P \frac{dP}{dt} = kP^2$: We can now separate to get $\int \frac{dP}{P^2} = \int k dt$: The integral on the left is difficult to evaluate. The secret is to express the fraction as

Applications of Differential Equations

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Differential Equations Applications - In Maths and In Real

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The project is written simply to illustrate on differentiations and their applications. The formation and classification of differentiation, the basic techniques of differentiations, list of derivatives and the basic applications of differentiation, which include motion, economic and chemistry. TABLE OF CONTENT. CHAPTER ONE. General Introduction

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Differential equations have wide applications in various engineering and science disciplines.

In general, modeling variations of a physical quantity, such as temperature, pressure, displacement, velocity, stress, strain, or concentration of a pollutant, with the change of time or location, such as the coordinates (x, y, z) , or both would require differential equations.

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to prove the rectification theorem and the fundamental existence and uniqueness theorems for solutions of differential equations in Banach spaces. Also, the basic re-

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Calculus Examples | Applications of Differentiation

Therefore, the differential equation describing the orthogonal trajectories is . since the right-hand side of (***) is the negative reciprocal of the right-hand side of (*). If equation (***) is written in the form . note that it is not exact (since $M_y = 2y$ but $N_x = -2y$). However, because . is a function of x alone, the differential ...

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