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## **Ppt Of Application Of Differential Equation In Civil ...**

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  $\frac{dP}{dt} = kP$  where  $\frac{dP}{dt}$  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  $P$  max  $P$  max

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$\frac{dP}{dt} = kP(P - \text{max } P)$ : We can now separate to get  $\frac{Z}{P - \text{max } P} \frac{dP}{dt} = Z k dt$ : The integral on the left is difficult to evaluate. The secret is to express the fraction as

## Applications of Differential Equations

applications of differential equations presented to: dr. sadia arshad presented by: ashhad abbas gilani(026) shahab arshad(058) riaz hussain(060) muhammad yousuf(... Slideshare uses cookies to improve functionality and performance, and to provide you with relevant advertising.

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## Differential Equations Applications - In Maths and In Real ...

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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MOTIVATING EXAMPLES 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  $t$  or location, such as the coordinates  $(x, y, z \dots)$

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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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Application of the implicit function theorem is a recurring theme in the book. For example, the implicit function theorem is used 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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Applications of Differentiation. Finding a Tangent Line to a Curve. Checking if Differentiable Over an Interval. The Mean Value Theorem. Finding the Inflection Points. Find Where the Function Increases/Decreases. Finding the Critical Points of a Function. Find Horizontal Tangent Line.

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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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Differential Calculus' applications in business are very extensive. It can be so useful that its applications are seem from calculating the cost of public transport to the costs of making a building. The certain amount of things that need to be used for  $x$  thing its also well-defined.

## **Application of Differential Calculus in Business - Term Paper**

Ordinary differential equations are examined in great. application of the same laws in the general case of three-dimensional, unsteady state flow. applications of partial differential equations in mechanical engineering, applications of partial differential equations problems, applications of partial differential equations in real life ppt.

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