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### Differential Calculus And Its Applications

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fields, solving problems using differentiation. This work is to show the important of differentiation, that it is not limited to mathematics alone, it is applied in our day to day life, it has its own share in our sciences \* motion, economic, chemistry. e.t.c).

## **Differentiation and its Applications - Mathematics Project ...**

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The use of probability calculus to determine and establish the scaling of the probability density and its function will eliminate the inconsistencies. Medical professionals also use calculus, differential calculus in particular, in population genetics. In genetics, population growth models often use calculus.

## **Calculus and Its use in Medicine - nmmra.org**

The word Calculus comes from Latin meaning "small stone", Because it is like understanding something by looking at small pieces. Differential Calculus cuts something into small pieces to find how it changes. Integral Calculus joins (integrates) the small pieces together to find how much there is. Read Introduction to Calculus or "how fast right now?"

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## **Calculus - MATH**

Differential calculus arises from the study of the limit of a quotient. It deals with variables such as  $x$  and  $y$ , functions  $f(x)$ , and the corresponding changes in the variables  $x$  and  $y$ . The symbol  $dy$  and  $dx$  are called differentials. The process of finding the derivatives is called differentiation.

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Applications of differential calculus include computations involving velocity and acceleration, the slope of a curve, and optimization. Applications of integral calculus include computations involving area, volume, arc length, center of mass, work, and pressure. More advanced applications include power series and Fourier series.

## **Calculus - Wikipedia**

for students who are taking a differential calculus course at Simon Fraser University. The Collection contains problems given at Math 151 - Calculus I and Math 150 - Calculus I With Review nal exams in the period 2000-2009. The problems are sorted by topic and most of them are accompanied with hints or solutions.

## **A Collection of Problems in Differential Calculus**

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