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BASIC CONCEPTS OF

DIFFERENTIAL AND INTEGRAL

CALCULUS 8.3 By definition $x \cdot x = 2x$

$f(x) = x^2$ $\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} = \lim_{h \rightarrow 0} \frac{(x+h)^2 - x^2}{h}$

$\lim_{h \rightarrow 0} \frac{dx}{d} = \lim_{h \rightarrow 0} \frac{2x \cdot h + h^2}{h} = \lim_{h \rightarrow 0} (2x + h) = 2x$

$\lim_{h \rightarrow 0} (2x + h) = 2x + 0 = 2x$ Thus,

derivative of $f(x)$ exists for all values of x and equals $2x$ at any point x .

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Integral calculus is intimately related to differential calculus, and together with it constitutes the foundation of mathematical analysis. The origin of integral calculus goes back to the early

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period of development of mathematics and it is related to the method of exhaustion developed by the mathematicians of Ancient Greece (cf. Exhaustion, method of).

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Calculus - Differential and Integral
Calculus Basics, Examples
a branch of mathematics,
developed independently by
Newton and Leibniz. Both
differential calculus and integral
calculus are concerned with the
effect on a function of an

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infinitesimal change in the independent variable as it tends to zero.

Differential calculus - Wikipedia
Integral Calculus Both the differential and integral calculus deals with the impact on the

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function of a slight change in the independent variable as it leads to zero. Both differential and integral calculus serves as a foundation for the higher branch of Mathematics known as "Analysis".

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UCLA Continuing Education

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It has two major branches,
differential calculus and integral
calculus. Differential calculus

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concerns instantaneous rates of change and the slopes of curves. Integral calculus concerns accumulation of quantities and the areas under and between curves. These two branches are related to each other by the fundamental theorem of calculus.

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I highly recommend the (historical fiction) book "The Sand Reckoner" by Gillian Bradshaw which is a story of his life.

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integral calculus are concerned
with the effect on a function of an
infinitesimal change in the
independent variable as it tends to

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zero 2. (Mathematics) any
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BASIC CONCEPTS OF
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Differential calculus and integral
calculus are connected by the

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fundamental theorem of calculus, which states that differentiation is the reverse process to integration. Differentiation has applications to nearly all quantitative disciplines.

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