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integrals. Functions are often defined as integrals. E.g., the “sine ...

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2 ( 1.5, 0) (-1.8, 7) (0, 7) (2.5, 7) (0, 3) 0 3. Functions and Their Graphs Input x Output y If a quantity  
y always depends on another quantity x in such a way that every value of x corresponds to one and  
only one value of y, then we say that “y is a function of x,” written  $y = f(x)$ ; x is said to be the  
independent variable, y is the dependent variable.

derivatives for first-year calculus students. This study guide is designed to supplement the first eleven  
chapters of 'Calculus early transcendentals', 5th ed., by James Stewart. It may also be used with  
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Applied Mathematics. This Study Guide shares the same goal, to teach mathematics in an active and purposeful way. 1.1 Velocity and Distance The first step in calculus (in my opinion) is to begin working with junctions. The functions can be described by formulas or by graphs. The first graphs to study are straight lines, and the functions

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Key Exam Details The AP® Calculus BC exam is a 3-hour 15-minute, end-of-course test comprised of 45 multiple-choice questions (50% of the exam) and 6 free-response questions (50% of the exam). The exam covers the following course content categories:

Chapter 0 Revision 0.1 Exponents De?nition (1) Let  $n$  be a positive integer and let  $a$  be a real number. We de?ne  $a^n$  to be the real number given by  $a^n = \underbrace{a \cdot a \cdot \dots \cdot a}_n$  factors (2) Let  $n$  be a negative integer  $n$ , that is,  $n = -k$  where  $k$  is a positive integer, and let  $a$  be a real number different from 0. We de?ne  $a^n$  to

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be the real number given by  $a^k = 1/a^{-k}$  (3) (i) Let  $a$  be a real number different ...

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Our study of calculus begins with an understanding of the expression  $\lim_{x \rightarrow a} f(x)$ , where  $a$  is a real number (in short,  $a$ ) and  $f$  is a function. This is read as: "the limit of  $f(x)$  as  $x$  approaches  $a$ ." • WARNING 1: means "approaches." Avoid using this symbol outside the context of ...

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Final Exam Study Guide for Calculus I 1 General Comments The final exam will be a 2.5 hour CUMULATIVE exam. This means that in principle, you are responsible for everything we have covered this term. As a study aid, I have listed below the major definitions, theorems, proofs, derivations, and ...

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Calculus 3 Class Notes, Thomas' Calculus, Early Transcendentals, 12th Edition Copies of the

classnotes are on the internet in PDF format as given below. Chapter 11: ...

Chapter 1 Basic Geometry An intersection of geometric shapes is the set of points they share in common.  $l$  and  $m$  intersect at point  $E$ .  $l$  and  $n$  intersect at point  $D$ .  $m$  and  $n$  intersect in line  $m$   $6$  , , ,  $n$  , &. Geometry

In fact, calculus grew from some problems that European mathematicians were working on during the seventeenth century: general slope, or tangent line problems, velocity and acceleration problems, minimum and maximum problems, and area problems. Calculus usually starts out with the study of limits, which can be quite frightening and confusing.

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