Chapter: A Preview of Calculus Chapter Introduction Book Title: Calculus: Early Transcendentals Printed By: Troy Jeffery (tradozprime@gmail.com) © 2018 Cengage Learning, Cengage Learning

Chapter Introduction

By the time you finish this course, you will be able to calculate the length of the curve used to design the Gateway Arch in St. Louis, determine where a pilot should start descent for a smooth landing, compute the force on a baseball bat when it strikes the ball, and measure the amount of light sensed by the human eye as the pupil changes size.



Calculus is fundamentally different from the mathematics that you have studied previously: calculus is less static and more dynamic. It is concerned with change and motion; it deals with quantities that approach other quantities. For that reason it may be useful to have an overview of the subject before beginning its intensive study. Here we give a glimpse of some of the main ideas of calculus by showing how the concept of a limit arises when we attempt to solve a variety of problems.

Chapter: A Preview of Calculus Chapter Introduction Book Title: Calculus: Early Transcendentals

Printed By: Troy Jeffery (tradozprime@gmail.com) © 2018 Cengage Learning, Cengage Learning

© 2019 Cengage Learning Inc. All rights reserved. No part of this work may by reproduced or used in any form or by any means - graphic, electronic, or mechanical, or in any other manner - without the written permission of the copyright holder.