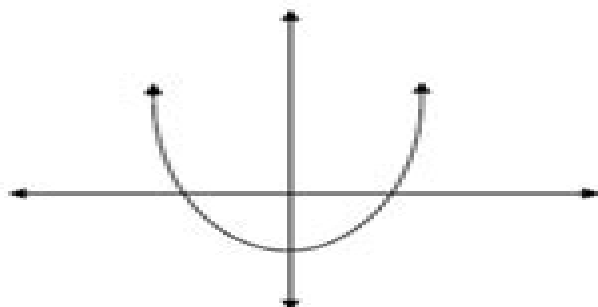


Lesson 2 – Estimating the Instantaneous Rate of Change

Terminology

Instantaneous Rate of Change: An estimate of the rate of change of a function $y = f(x)$ at a specific value of the independent variable $x = a$; estimated using average rates of change for small intervals of the independent variable very close to $x = a$. THE SLOPE OF THE TANGENT LINE



Preceding Interval: an interval of the independent variable of the form $a - h \leq x \leq a$, where h is a small positive value; used to determine an average rate of change.

Following Interval: an interval of the independent variable of the form $a \leq x \leq a + h$, where h is a small positive value; used to determine an average rate of change.

Centered Interval: an interval of the independent variable of the form $a - h \leq x \leq a + h$, where h is a small positive value; used to determine an average rate of change. The instantaneous rate of change can be estimated by squeezing the centered intervals

Difference Quotient: if $P(a, f(a))$ and $Q(a + h, f(a + h))$ are two points on the graph of $y = f(x)$, then the instantaneous rate of change of y with respect to x at P can be estimated using

THE DIFFERENCE QUOTIENT

$$\frac{\Delta y}{\Delta x} = \frac{f(a + h) - f(a)}{h}$$

where h is a very small number. This expression is called the difference quotient.

Example 1

A small pebble is dropped into a 3.0m tall cylindrical tube filled with thick glycerine. A motion detector recorded the time and the total distance that the pebble fell after its release.

Time, $t(s)$	6.0	6.2	6.4	6.6	6.8	7.0
Distance, $d(t)$ (cm)	208.39	221.76	235.41	249.31	263.46	277.84

- a) Estimate the instantaneous rate of change when $t = 6.4$ seconds using the preceding interval method.

2 2 Estimating Instantaneous Rates Of Change From Tables

**Frederick L. Dillon, W. Gary
Martin, Basil M. Conway IV, Marilyn E.
Strutchens**

2 2 Estimating Instantaneous Rates Of Change From Tables:

Developing Students' Reasoning in Precalculus: Covariational Explorations Enriched by Rates of Change and Limits Andrzej Sokolowski,2024-12-09 This book aims to develop high school and undergraduate students covariational reasoning and algebraic skills to succeed in calculus and STEM subjects The book reflects on contemporary research in math education where students explore algebraic tools and reason mathematically to construct new knowledge The volume is made up of six chapters covering polynomial rational and transcendental functions An early introduction of limits to support the analyses of linear functions progresses to other book chapters ensuring consistency parallelism and a scaffold knowledge delivery A gradual introduction to function rates of change along with function monotonicity and concavity intertwines with modeling techniques that merge students mathematical reasoning with scientific contexts A forthcoming online component of the book consists of ready to download exploratory modeling activities and worksheets that further solidify students fluency in understanding how to apply abstract math concepts to gain a deeper understanding of natural and social sciences AP Calculus Premium, 2022-2023: 12 Practice Tests + Comprehensive Review + Online Practice David Bock,Dennis Donovan,Shirley O. Hockett,2022-01-18 Be prepared for exam day with Barron s Trusted content from AP experts Barron s AP Calculus Premium 2022 2023 includes in depth content review and online practice for the AB and BC exams It s the only book you ll need to be prepared for exam day Written by Experienced Educators Learn from Barron s all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exams Get a leg up with tips strategies and study advice for exam day it s like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 12 full length practice tests 4 AB practice tests and 4 BC practice tests in the book including a diagnostic AB test and a diagnostic BC test to target your studying and 2 more AB practice tests and 2 more BC practice tests online Strengthen your knowledge with in depth review covering all Units on the AP Calculus AB and BC Exams Reinforce your learning with multiple choice practice questions at the end of each chapter Enhance your problem solving skills with new and revised multiple choice and free response practice questions throughout the book including a chapter filled with multiple choice questions and a chapter devoted to free response practice exercises Online Practice Continue your practice with 2 full length AB practice tests and 2 full length BC practice tests on Barron s Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice Gain confidence with scoring to check your learning progress AP Calculus Premium, 2024: 12 Practice Tests + Comprehensive Review + Online Practice David Bock,Dennis Donovan,Shirley O. Hockett,2023-07-04 12 Practice Tests Comprehensive Review Online Practice Cover Mathematics for the Life Sciences Glenn Ledder,2013-08-29 Mathematics for the Life Sciences provides present and future biologists with the mathematical concepts and tools needed to understand and use mathematical models and read advanced mathematical biology books It presents mathematics in

biological contexts focusing on the central mathematical ideas and providing detailed explanations The author assumes no mathematics background beyond algebra and precalculus Calculus is presented as a one chapter primer that is suitable for readers who have not studied the subject before as well as readers who have taken a calculus course and need a review This primer is followed by a novel chapter on mathematical modeling that begins with discussions of biological data and the basic principles of modeling The remainder of the chapter introduces the reader to topics in mechanistic modeling deriving models from biological assumptions and empirical modeling using data to parameterize and select models The modeling chapter contains a thorough treatment of key ideas and techniques that are often neglected in mathematics books It also provides the reader with a sophisticated viewpoint and the essential background needed to make full use of the remainder of the book which includes two chapters on probability and its applications to inferential statistics and three chapters on discrete and continuous dynamical systems The biological content of the book is self contained and includes many basic biology topics such as the genetic code Mendelian genetics population dynamics predator prey relationships epidemiology and immunology The large number of problem sets include some drill problems along with a large number of case studies The latter are divided into step by step problems and sorted into the appropriate section allowing readers to gradually develop complete investigations from understanding the biological assumptions to a complete analysis

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Your Mathematics Standards Companion, High School Frederick L. Dillon, W. Gary Martin, Basil M. Conway IV, Marilyn E. Strutchens, 2018-02-06 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It's all here page by page The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number and quantity algebra functions geometry and statistics and probability building from eighth grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How content standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and descriptions of what teachers and students should be doing to foster deep learning Your Mathematics Standards Companion is your one stop guide for teaching planning assessing collaborating and designing powerful high school mathematics curriculum in any state or district

The Common Core Mathematics Companion: The Standards Decoded, High School Frederick L. Dillon, W. Gary Martin, Basil M. Conway IV, Marilyn E. Strutchens, 2017-09-12 Your User's Guide to the Mathematics Standards When it comes to mathematics standards aligned is achievement aligned In the short time since The Common Core Mathematics Companions for grades K 2 3 5 and 6 8 burst on the scene they have been lauded as the best resources for making critical mathematics ideas easy to teach With this brand new volume high school mathematics success is at your fingertips Page by page the authors lay out the pieces of an in depth explanation including The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number quantity algebra functions geometry and statistics and probability building from the 8th grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and descriptions of what teachers and students should be doing to foster deep learning The Common Core Mathematics Companion The Standards Decoded High School has what every high

school teacher needs to provide students with the foundation for the concepts and skills they will be expected to know

Calculus for the Life Sciences Frederick R. Adler, Miroslav Lovric, **Contemporary Mathematics in Context**, 2003

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William Charles Brenke, 1910 **Demographic and Habitat Requirements for Conservation of Bull Trout** Bruce E. Rieman, 1993 [Calculus](#) Deborah Hughes-Hallett, Andrew M. Gleason, William G. McCallum, 2020-11-24 *Calculus* Single Variable 8th Edition promotes active learning by providing students across multiple majors with a variety of problems with applications from the physical sciences, medicine, economics, engineering, and more. Designed to promote critical thinking to solve mathematical problems while highlighting the practical value of mathematics, the textbook brings calculus to real life with engaging and relevant examples, numerous opportunities to master key mathematical concepts and skills, and a student-friendly approach that reinforces the conceptual understanding necessary to reduce complicated problems to simple procedures. Developed by the Harvard University Calculus Consortium, *Calculus* focuses on the Rule of Four, viewing problems graphically, numerically, symbolically, and verbally, with particular emphasis placed on introducing a variety of perspectives for students with different learning styles. The eighth edition provides more problem sets, up-to-date examples, and a range of new multi-part graphing questions and visualizations powered by GeoGebra that reinforce the Rule of Four and strengthen students' comprehension. **Handbook of Fish Biology and Fisheries** Paul J. B. Hart, John D.

Reynolds, 2008-04-15 Recent decades have witnessed strong declines in fish stocks around the globe amid growing concerns about the impact of fisheries on marine and freshwater biodiversity. Fisheries biologists and managers are therefore increasingly asking about aspects of ecology, behaviour, evolution, and biodiversity that were traditionally studied by people working in very separate fields. This has highlighted the need to work more closely together in order to help ensure future success both in management and conservation. The *Handbook of Fish Biology and Fisheries* has been written by an international team of scientists and practitioners to provide an overview of the biology of freshwater and marine fish species together with the science that supports fisheries management and conservation. This volume, subtitled *Fisheries*, focuses on a

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McCallum, 2017-01-09 Calculus Single and Multivariable 7th Edition continues the effort to promote courses in which understanding and computation reinforce each other The 7th Edition reflects the many voices of users at research universities four year colleges community colleges and secondary schools This new edition has been streamlined to create a flexible approach to both theory and modeling The program includes a variety of problems and examples from the physical health and biological sciences engineering and economics emphasizing the connection between calculus and other fields

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