

Waterloo Maple Releases Calc I Maplets™

Suite of Learning Objects Make Calculus Come to Life

Waterloo, Canada, November 22, 2002 -- Waterloo Maple, the leading provider of advanced software products for mathematics, education, research and industry, announces the release of Calc I Maplets™, a revolutionary set of learning objects for 1st-year calculus based on the Maplets technology of Maple® 8.

Subscribers to Waterloo Maple's Extended Maintenance Plan (EMP) can download Calc I Maplets for free from the MaplePrimes™ website at <http://www.mapleprimes.com>. A free sample of the Calc I Maplets is available from the Maple Application Center, under the education section at <http://www.mapleapps.com>.

When a student opens a Calc Maplet lesson, he or she is presented with a panel of text fields, buttons and plot windows. In this environment, the student can enter functions and data and see how the calculus ideas of that lesson apply to the cases he or she chose. Each maplet can display results in the form of plots, symbolic expressions, and numerical answers.

“With Calc I Maplets, students can literally make calculus happen in front of them by pulling on its levers. Since the maplets do the symbolic computations in Maple, students can learn from any example they choose, not just canned examples built into the program,” states Dr. Jason Schattman, Waterloo Maple's Applications Marketing Manager.

In one of the maplets, a student can apply differentiation rules to a function one step at a time until he or she obtains the function's derivative. The student can learn by trial and error which differentiation rules to apply to a given function and in which order. Unlike studying from a book or notes, the student gets instant feedback on his or her understanding. Other maplets help reinforce learning of limits, integration, optimization, Taylor series, and much more.

Calculus instructors can use Calc I Maplets for lab activities, homework explorations or in-class demonstrations to enliven a lecture.

There are now 17 learning objects in the Calc I Maplets set, covering most major topics from a one-year calculus course.



About Maple® 8

Maple 8 delivers a comprehensive environment for visualizing and exploring mathematical concepts and developing mathematical applications. Combined with free add-on packages at MaplePrimes™ (www.mapleprimes.com) and hundreds of applications at the Maple Application Center™ (www.mapleapps.com), Maple 8 is the most flexible analytical tool for professors,

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researchers, scientists, engineers and students. Maple 8's technical features include the most advanced suite of mathematical solvers, intelligent symbolic algorithms for all areas of mathematics, Maplets for GUI customization, scientific visualization, a powerful programming language, and connectivity to the Web, Microsoft® Excel, MATLAB®, and external C, Fortran and Java™ programs.

About MaplePrimes.com

MaplePrimes is a controlled-access Web site from Waterloo Maple that provides exclusive content to customers and end-users who subscribe to the Maple Extended Maintenance Program (EMP). It is part of our on-going effort to deliver maximum value to those customers who support Maple products.

About Waterloo Maple

Founded in 1988, Waterloo Maple is a world leader in mathematical and analytical software. The Maple system embodies advanced technology such as symbolic computation, infinite precision numerics, innovative Web connectivity and a powerful language for solving a wide range of mathematical problems encountered in modeling and simulation. Over a million users have adopted Waterloo Maple products as their preferred platform for exploring and managing complex problems in engineering, science, mathematics and technical education. Virtually every major university and research institute in the world, including MIT, Stanford, Oxford and Waterloo, has adopted Maple to enhance their education and research activities. Waterloo Maple's industrial customer base includes Boeing, DaimlerChrysler, Nortel and Raytheon. For more information visit www.maplesoft.com.

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