Maplesoft Releases Precalculus Study Guide

New electronic guide provides problem-based learning in critical math topic

WATERLOO, CANADA, Monday, August 16, 2004 – MaplesoftTM, the leading provider of software tools for teaching, learning, and doing mathematics and engineering analysis announced today the availability of the new Precalculus Study Guide for Maple. This guide is an exercise-based electronic version of the introductory chapter in the standard calculus text. High school and university students studying or preparing for calculus, and students wanting additional insight into selected topics in algebra and trigonometry will benefit from this guide.

The Precalculus Study Guide is designed to help students master the math so necessary for success in calculus. It reveals the secrets of those tricky calculus computations that often remain a mystery. Covering material from the introductory chapter of the typical calculus text, it provides solutions to more than 60 problems. To maximize student comprehension, these are each given in three ways: in standard textbook format, with dedicated Maplet tutors, and with Maple commands.

"The interactive Maple technologies used in this study guide yield a richer learning experience than can be obtained any other way", says Robert Lopez, Emeritus Professor of Mathematics from Rose-Hulman Institute of Technology, and now Mathematical Applications Manager at Maplesoft. "Presenting the solution of each problem with different mathematical technologies helps the student master essential concepts."

Each example problem is solved in the format of a standard textbook. Then, it is solved in a point-and-click fashion using specially designed Maplet tutors, syntax-free tools for solving classes of problems. Finally, each example problem is solved with standard Maple commands so the student learns to unlock the complete power of the Maple software.

The Precalculus Study Guide contains more than 175 additional exercises for further practice and deeper understanding. It has a hyperlinked index, hyperlinked chapter glossaries, and hyperlinks to over 150 definitions and help pages.

The Precalculus Study Guide is available from the <u>Maplesoft Web store</u>. The list price is \$14.95 US.

To learn more about the Precalculus Study Guide, please visit http://www.maplesoft.com/products/StudyGuides/precalculus/

About Maple 9.5

Maple 9.5 is the environment of choice for scientific and engineering problem solving, mathematical exploration, data visualization and technical authoring. It transforms the way technical professionals and students use technology. Seamlessly integrating the power of rocksolid numerics with world-class symbolics, Maple 9.5 offers full computing support for any projects involving mathematics allowing users to capture and manage technical knowledge. In

News Release

industry, this technology facilitates true collaborative knowledge management. In the classroom, the technology frees the student and teacher to focus on concepts and not the error-prone manipulation. Supporting this powerful technology is a rich user environment, unsurpassed product ease-of-use, and an extensive range of features to shorten the learning curve and to maximize productivity.

About Maplesoft

Maplesoft is a world leader in mathematical and analytical software. Its suite of products include Maple 9.5, the standard among interactive mathematical software; MapleNet, a comprehensive mathematical infrastructure for the Web; Maple T.A., a system for automated grading of mathematics tests; and toolboxes for specialized application areas. Maplesoft products embody the most advanced and integrated technology for both numeric and symbolic solution of complex problems. Its standards-compliant algorithms are renowned for their speed, accuracy and reliability. In addition, Maplesoft leads the market with innovations that make the management of technical knowledge – whether in industry or in a classroom – more effective and efficient. Over 5 million users benefit from advanced Maple technology. Maplesoft's industrial customer base includes Boeing, Bosch, Canon, and NASA. Additionally, virtually every major university and research institute in the world, including MIT, Stanford, Oxford and Waterloo, has adopted Maple products to enhance their education and research activities. For more information visit www.maplesoft.com.

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