

Maple Mastery I

On-line Video-based Training for Maple®

Maple **Mastery I** teaches students how to use Maple using on-line *video-based* lessons.

Maple **Mastery I** enables students to solve mathematical problems on their own *productively* and *confidently* using Maple.

Key Features

Unlike traditional instruction, *video-based* instruction allows students to:

- Learn at a *convenient* time/place
- Learn at their *own* pace
- Practice as they learn, and experiment at *will*
- Review lessons at a *later* time
- Postpone lessons (*Just-in-Time*)

As well Maple **Mastery I** features:

- Familiar “*text book*” examples
- Maple “*best practices*” taught
- Lessons split into *bite-size* steps
- Compact interface lets students practice in Maple *while* learning

Course Outline

1. Welcome

- Instructions
- Course outline

2. Quick Start

- Symbolic math concepts
- Solving single equations
- Curve and surface plots

3. Solving Systems

- Parabola and circle
- Paraboloid and sphere

4. Linear Algebra

- Solve linear systems
- Eigenvalues and eigenvectors

5. Calculus

- Derivatives, integrals, limits
- Animated tangent line
- Taylor Series

6. Multivariable Calculus

- Classify critical points
- Lagrange Multipliers

7. Vector Calculus

- Verify Green’s Theorem
- Verify Divergence Theorem

8. Differential Equations

- Linear 1st and 2nd order
- Numeric and series solution

Compatibility

The course is compatible with Maple 6 through Maple 9.

Distribution Rights

When an institution gets an annual site license for **Maple Mastery I**, *all* employees and students may be given personal *and/or* intranet access.

For more information

For further information please contact the distributor:

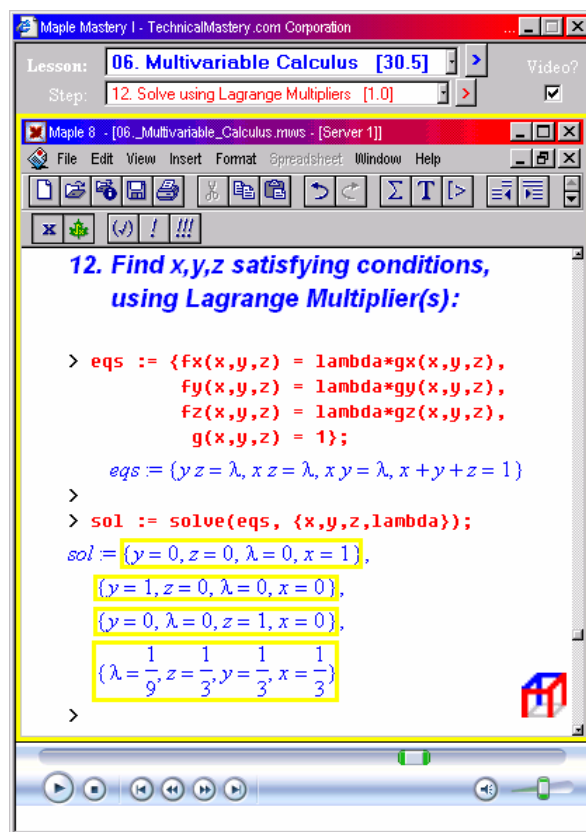
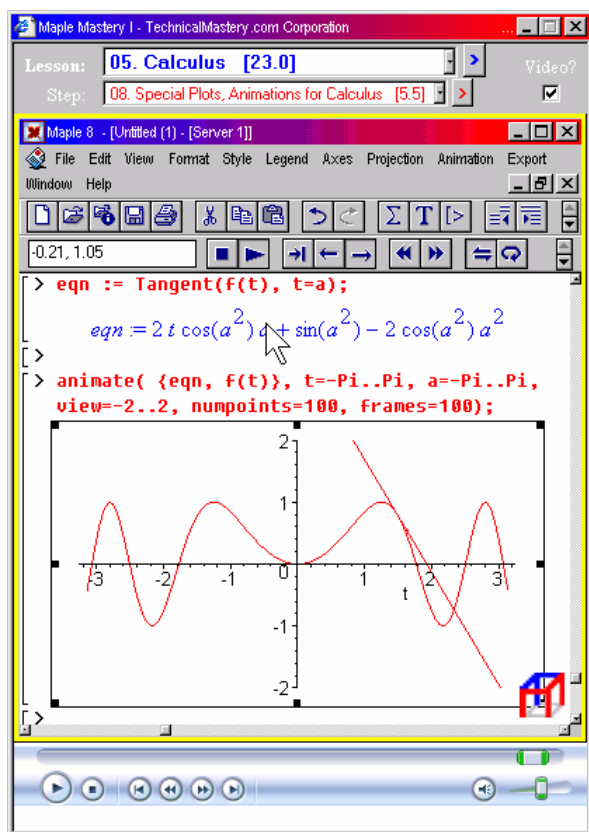
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Try the Demonstration Version at:

www.TechnicalMastery.com/MapleMasteryI