TI-89 Titanium and Voyage™ 200
Advanced Mathematics
Software version 3.10

August 2005

Tools | Training | Curricular Materials

New Features

- **Domain Improvements**

- **Graphing Improvements**

- **Logarithm Functions**

- **Root Function**

- **Increased Solving Capabilities**

- **Gradian Angle Measure**

- **Population Standard Deviation**

- **Implicit Derivatives**

Domain Improvements

A Warning is displayed:

- when the intermediate steps in a computation involved complex numbers, and

- when the domain may have changed.

Graphing Improvements

- No auto-simplification when graphing. Points are not plotted when complex intermediate results occur.

- Discontinuity Detection provides the option to remove "faux" asymptotes by introducing a smart discontinuity detection mechanism.

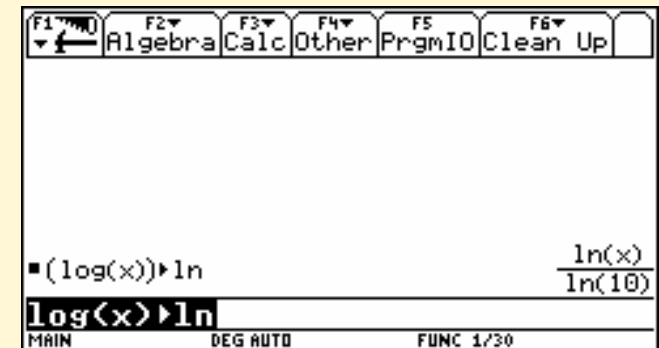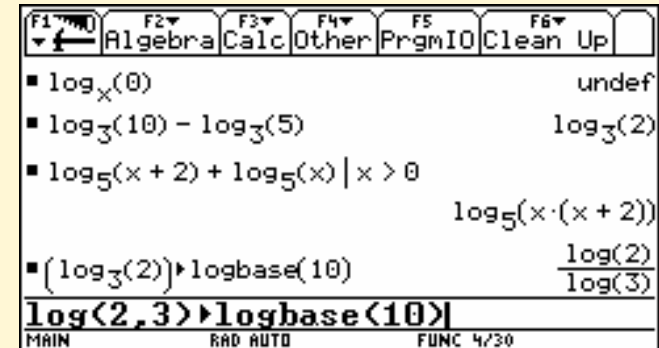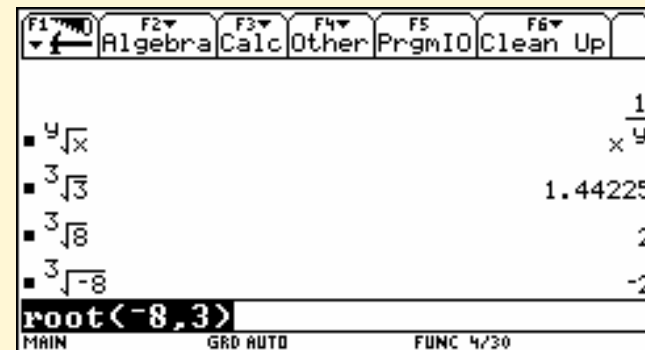- Graphing piecewise defined functions is improved as well!

Before…
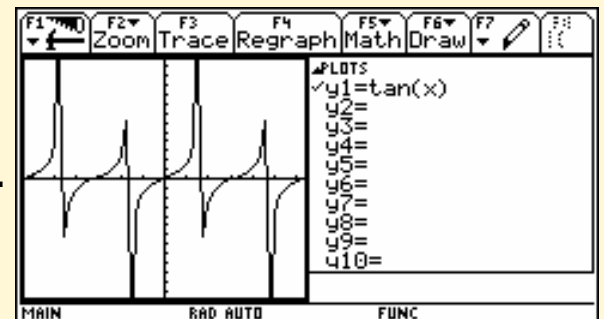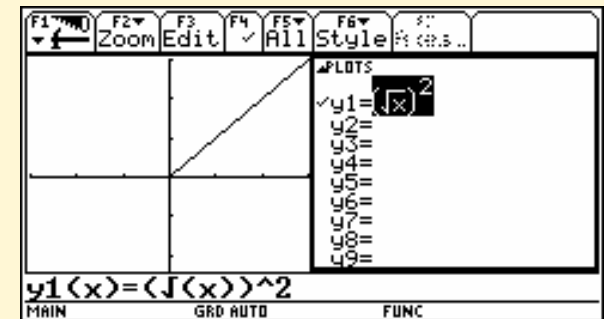
After…
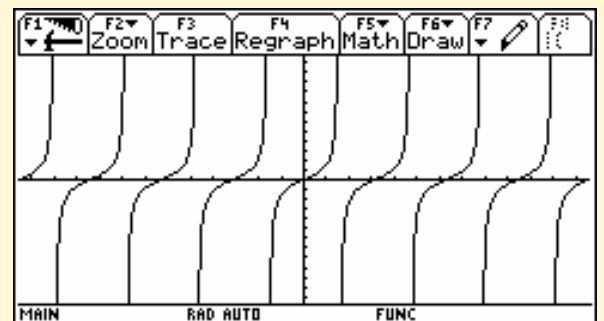
Logarithm Functions

- Keyboard access to log function: ◆ 7

- Support for log to any base including transfinite bases and algebraic expressions.

- Commands for natural log and any log conversion.

- Displays subscripts.

Root Function

- Keyboard access to root function: ◆ 9

Increased Solving Capabilities

- Solves inequalities involving polynomial, rational, and absolute value expressions.

- Solves fundamental problems involving vectors, including decomposition and intersection problems (two lines, a line and a plane, two planes) involving parametric forms.

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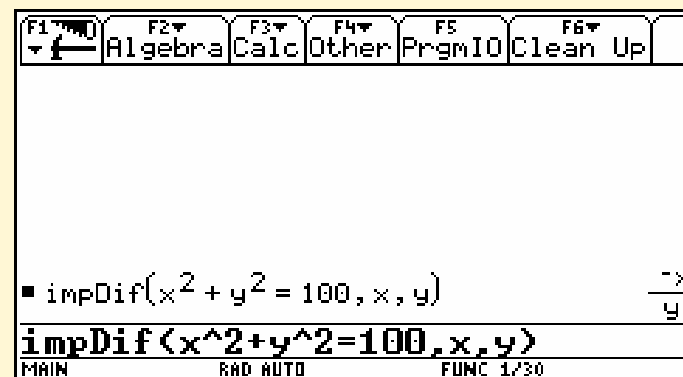
Gradian Angle Measure

- New Gradian angle mode, indicated by GRD on the status line.

- ►GRAD for angle conversion
- Superscript G indicates the new angle measure.
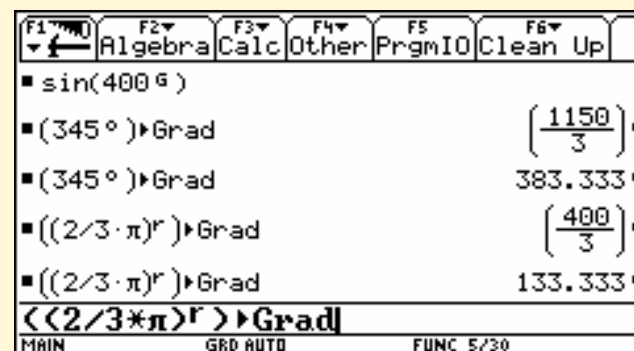
Implicit Derivatives

- Compute implicit derivatives for equations in two variables in which one variable is defined implicitly in terms of another.

- Calculus menu: Press [F3] D

Population Standard Deviation

stDevPop(*list* **[***, freqlist* **])** $\Rightarrow$ *expression*
returns the population standard
deviation of the elements in *list* when
list has at least two elements.