



# TI-89 and 49G Comparison Table

Features	TI-89	HP 49G
<b>Manufacturer</b>	Texas Instruments	Hewlett-Packard
<b>Description</b>		
Scientific Programmable Graphing Calculator	◆	◆
<b>Memory</b>		
User Memory	512KB (188KB RAM, 384KB Flash ROM)	1.5MB (512KB RAM, 1MB Flash ROM)
Flash ROM for future electronic software upgrades	◆	◆
<b>Operating Features</b>		
Operating Modes	Algebraic - Entry Line Only	Algebraic/RPN/Textbook
Home/Default Screen Display Modes	Pretty Print*/Algebraic	Textbook/Algebraic
Home/Default Screen History Display	Results/Objects	Results/Objects
Built-in Fonts		4
Font Sizes		4
Cut / Paste / Copy Operations	◆	◆
Manipulating & Solving Sub-expressions		◆
Catalogue of Functions	◆	◆
Object Storage/Archiving	◆	◆
Date & Time (including Alarm Set)		◆
Automatic Insertion of missing parentheses in Real-time		◆
Automatic Prompting / Construction of Expression Syntax		◆
<b>Math Features</b>		
Built-in Computer Algebra System (CAS)	◆	◆
Mathematical Constants Library	◆	◆
Factorization & Expansion	◆	◆
Substitution	◆	◆
Differentiation & Integration	◆	◆
Differential Equations	◆	◆
Solving Systems of Linear Equations	◆	◆
Advanced Matrix Functions: symbolic eigenvalues & eigenvectors, under/over determined linear systems, diagonalization, Hilbert, Vandermonde		◆
Taylor polynomials	◆	◆
Advanced polynomial functions (e.g. orthogonal)		◆
Symbolic & Numeric Solve	◆	◆
Step-by-step Numeric & Symbolic Solve		◆
Real & Complex Numbers	◆	◆
Advanced Complex Arithmetic		◆
Exponential & Logarithmic Functions	◆	◆
Differential Geometry Tools (gradient, laplacian, hessian, rotational, divergence)		◆
Lists & Sequences	◆	◆
Advanced Trigonometry with hyperbolic functions, degrees, and radians		◆
Vector Operations (absolute magnitude, dot & cross product)	◆	◆
<b>Scientific Features</b>		
Physical Constants Library	◆	◆
Units-of-Measure Library	◆	◆
Unit Conversions	◆	◆
<b>Statistical Features</b>		
Inferential (hypothesis tests/confidence intervals)		◆
Descriptive (lists, single variable, frequencies, regression, summary)	◆	◆
<b>Financial Features</b>		
Time-value-of-money	◆	◆
Amortization	◆	◆
<b>Graphing Features</b>		
Tables	◆	◆
2D/3D Plotting	◆	◆
Function Analysis - Root, Extrema, Slope, Area, Intersection	◆	◆
Tracing & Zooming	◆	◆
<b>Customizing Features</b>		
Programming Languages	TI Basic	RPN/Assembly/HP Basic
<b>Communication</b>		
Unit-to-Unit Link Cable	◆	◆
Overhead Display Unit		◆
Data-logger	◆	◆
PC/Mac Connectivity Kits	◆	◆

\* With Pretty Print - Exponents, roots, fractions, etc. are displayed in the same form in which they are traditionally written.

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