

	TI-73 Explorer™	TI-82	TI-83	TI-83 Plus	TI-83 Plus Silver Edition	TI-84 Plus	TI-84 Plus Silver Edition	TI-86	TI-89	TI-89 Titanium	Voyage™ 200
Graphing Handhelds											
Display											
Display Size Pixels	64 x 96	64 x 96	64 x 96	64 x 96	64 x 96	64 x 96	64 x 96	64 x 128	100 x 160	100 x 160	128 x 240
Split Screen		•	•	•	•	•	•	•	•	•	•
Pretty Print									•	•	•
Scrollable Home Screen	•								•	•	•
Icon Desktop									Available	•	•
Graphing											
Function	•	•	•	•	•	•	•	•	•	•	•
Parametric, Polar, Sequence		•	•	•	•	•	•	•	•	•	•
Differential Equations, Slope Fields								•	•	•	•
RK, Euler, Initial Conditions								•	•	•	•
3D Graphing									•	•	•
Graph formats (solid line, dotted line, etc)	•		•	•	•	•	•	•	•	•	•
Contour Plotting, Implicit Plotting									•	•	•
Zoom and Trace	•	•	•	•	•	•	•	•	•	•	•
Table of Function Values	•	•	•	•	•	•	•	•	•	•	•
Mathematics											
Simultaneous Equation Solver				App	App ¹	App	App ¹	•	App ¹	App ¹	App ¹
Conic Graphing				App	App ¹	App ¹	App ¹				
Dynamic/Transformation Graphing				App	App ¹	App ¹	App ¹				
Inequality Graphing				App	App ¹	App ¹	App ¹				
Polynomial Root Finder				App	App ¹	App	App ¹	•	App ¹	App ¹	App ¹
Fraction Operations	•								•	•	•
Complex Numbers			•	•	•	•	•	•	•	•	•
Bin, Hex / Oct Operations								•/•	•/	•/	•/
Logic Operations	•	•	•	•	•	•	•	•	•	•	•
Interactive Equation Solver	•		•	•	•	•	•	•	•	•	•
Vector Operations				App ¹	App ¹	App ¹	App ¹	•	•	•	•
Trig Functions / Hyperbolic Functions	•/	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•
Geometric Constructions/Transformations	App ¹			App	App ¹	App ¹	App ¹		App	App	App ¹
Symbolic Algebra									•	•	•
Symbolic Operations with Units									•	•	•
Numeric Differentiation/Integration			•	•	•	•	•	•	•	•	•
Symbolic Differentiation/Integration									•	•	•
Symbolic Ordinary Differential Equations (1st & 2nd order)									•	•	•
Interactive step-by-step symbolic calculations									App	App ¹	App ¹
Inflection Points								•	•	•	•
Minimums and Maximums		•	•	•	•	•	•	•	•	•	•

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Matrices											
Size	App	50 x 50 ²	50 x 50 ²	50 x 50 ²	50 x 50 ²	50 x 50 ²	50 x 50 ²	80 x 80 ²	No Limit ²	No Limit ²	No Limit ²
Number	Up to 6	Up to 5	Up to 10	Up to 10	Up to 10	Up to 10	Up to 10	No Limit ²	No Limit ²	No Limit ²	No Limit ²
Eigenvalues, Eigenvectors								•	•	•	•
LU Decomp. / QR Factorization								•/	•/•	•/•	•/•
Data Analysis											
List Length	999 ²	99 ²	99 ²	999 ²	999 ²	999 ²	999 ²	6000 ²	No Limit ²	No Limit ²	No Limit ²
Number of Lists	No Limit ²	6	No Limit ²	No Limit ²	No Limit ²	No Limit ²	No Limit ²	No Limit ²	No Limit ²	No Limit ²	No Limit ²
Stored Column Formulas	•		•	•	•	•	•	•	•	•	•
Named lists	•		•	•	•	•	•	•	•	•	•
Scatter Plots and Histograms	•	•	•	•	•	•	•	•	•	•	•
Pie Chart, Bar Chart / Pictograph	•/•			App /	App ¹ /	App /	App ¹ /				
One- and Two- variable Statistics	•	•	•	•	•	•	•	•	•	•	•
Number of Regression Models	5	8	10	10	10	10	10	9	10	10	10
Manual Fit Line	•			App	App ¹	App ¹	App ¹				
Combinations, Permutations, Random Numbers	•	•	•	•	•	•	•	•	•	•	•
Coin, Dice Toss	•			App ¹	App ¹	App ¹	App ¹				
Inferential Stat, Prob. Distributions			•	•	•	•	•	• ³	App	App ¹	App ¹
Goodness of Fit, Mult. Regression, ANOVA 2way, RandSamp, CorrMat									App	App ¹	App ¹
Spreadsheets				App	App ¹	App	App ¹		App	App ¹	App ¹
Finance											
Interactive TVM Solver			•	•	•	•	•	• ³	App ¹	App ¹	App ¹
Cash Flows, Amortizations			•	•	•	•	•	• ³	App ¹	App ¹	App ¹
Science											
Physical Constants and Unit Manipulation				App ¹	App ¹	App ¹	App ¹	•	•	•	•
Significant Figures				App ¹	App ¹	App ¹	App ¹				
Metric Conversions	•			App ¹	App ¹	App ¹	App ¹	•	•	•	•
Periodic Table				App	App ¹	App	App ¹				
Other Specifications											
Clock						•	•		Available ⁴	•	•
Prior Entry Recall	•	•	•	•	•	•	•	•	•	•	•
Catalog of Functions	•		•	•	•	•	•	•	•	•	•
I/O Port / USB Port	•/	•/	•/	•/	•/	•/•	•/•	•/	•/	•/•	•/
Unit-to-Unit Cable	•	•	•	•	•	New Mini USB Cable	New Mini USB Cable	•	•	New Mini USB Cable	•
Power / APD™ ⁵	4AAA/•	4AAA/•	4AAA/•	4AAA/•	4AAA/•	4AAA/•	4AAA/•	4AAA/•	4AAA/•	4AAA/•	4AAA/•
QWERTY Keyboard Built-in / External				/Available	/Available	/Available	/Available		/Available	/Available	•/Available
Custom User-Defined Menus								•	•	•	•
Organizer				App	App ¹	App	App ¹		App	App ¹	App
Text File Editor				App	App ¹	App	App ¹		•	•	•
FLASH Memory (for installation of Apps and upgradeability)	•			•	•	•	•		•	•	•

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Accessories											
Computer Connectivity Software	Available	Available	Available	•	•	•	•	Available	Available	•	•
Computer Connectivity Cable	Available	Available	Available	Available	•	•	•	Available	Available	•	•
Data Collection (Compatible with CBL™, CBL 2™ and CBR™)	•	•	•	•	•	•	•	•	•	•	•
Display able to be projected ⁶	ViewScreen model only				ViewScreen model only	• ⁷	• ⁷	ViewScreen model only	ViewScreen model only	ViewScreen model only	•
EXPLORATIONS™ Series Books	Available		Available	Available ⁸	Available ⁸	Available ⁸	Available ⁸	Available	Available ⁹	Available ⁹	Available ⁹
Available Memory (approx.)											
RAM	25K	28K	27K	24K	24K	24K	24K	96K	188K	188K	188K
FLASH ROM	128K			160K	1.5MB	480K	1.5MB		702K	2.7MB	2.7MB

¹ App preloaded and/or included in the purchase price of the graphing handheld

² Limited by available memory

³ Program available for download from education.ti.com

⁴ Must have hardware version 2

⁵ APD = Automatic Power Down

⁶ Display can be projected using the appropriate TI-ViewScreen™ LCD panel or the TI-Presenter™. (TI-Presenter™ is not compatible with a TI-86.)

⁷ ViewScreen model available for Silver Edition only. Requires adapter for student units.

⁸ TI-83, TI-83 Plus and TI-83 Plus Silver Edition books are compatible with the TI-83 Plus family and the TI-84 Plus family of handhelds.

⁹ TI-89, TI-92, and TI-92 Plus books are compatible with the TI-89, TI-89 Titanium, and Voyage™ 200.