Graphics Calculator Comparison

	TI-82 STATS	TI-84 Plus	TI-84 Plus CE-T	TI-Nspire™ CX	TI-Nspire™ CX CAS
DISPLAY					
Engineering notation	●	●	●	●	●
Scientific notation	●	●	●	●	●
Icon desktop				●	●
Scrollable home screen				●	●
Pretty-print for in- and output		●	●	●	●
Split screen (vertical/horizontal)	2	2	2	4	4
Display (lines x characters)	8 x 16	8 x 16	10 x 26	Graphical	Graphical
Display (pixels)	64 x 96	64 x 96	240 x 320	240 x 320	240 x 320
Colour display			●	●	●
MEMORY					
Equation recall	●	●	●	●	●
Available Flash ROM		480 kB	3 MB	100 MB	100 MB
Available RAM	24 kB	24 kB	154 kB	60 MB	60 MB
MATHEMATICS					
Simultaneous equation solver		Flash	Flash	●	●
Polynominal root finder		Flash	Flash	●	●
Hyperbolics	●	●	●	●	●
Trig functions	●	●	●	●	●
Logic operations	●	●	●	●	●
Bin, hex, oct operations				●	●
Complex numbers	●	●	●	●	●
Numerical solver	●	●	●	●	●
Fractions operations	●	●	●	●	●
CALCULUS					
Inflection					●
Max min	●	●	●	●	●
Symbolic integration					●
Symbolic differentiation					●
Integral and derivative templates		●	●	●	●
Numeric integration	●	●	●	●	●
Numeric differentiation	●	●	●	●	●
GRAPHING					
Conic graphing		Flash	Flash		
Inequality graphing		Flash	Flash	●	●
Transformation graphing		Flash	Flash		
Table of function values	●	●	●	●	●
Zoom and trace	●	●	●	●	●
Contour, implicit plotting					
Multiple function graph styles	●	●	●	●	●
Slope and direction fields					●
Differential equations					●
3-D graphing				●	●

TEXAS INSTRUMENTS

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Sequence	●	●	●	●	●
Polar	●	●	●	●	●
Parametric	●	●	●	●	●
Function	●	●	●	●	●
COMPUTER ALGEBRA FUNCTIONS					
Symbolic equation solver					●
Symbolic units of measure and constants					●
Symbolic linear differential equations					●
Symbolic calculus					●
Symbolic algebra					●
STATISTIC FUNCTIONS					
Combinations and permutations	●	●	●	●	●
Random numbers	●	●	●	●	●
Number of regression models	10	10	10	10	10
Linear regression	●	●	●	●	●
Mean, standard deviation	●	●	●	●	●
Statistics (1-2 var.)	●	●	●	●	●
Spreadsheets		Flash	Flash	●	●
Goodness of fit, ANOVA 2-way, RandSamp, CorrMat				●	●
Pie chart/bar chart		Flash	Flash	●	●
Manual fit line		●	●	●	●
Probability simulation		Flash	Flash	●	●
Inferential statistics, probability distributors	●	●	●	●	●
Combinations, permutations, random numbers	●	●	●	●	●
Scatter plots	●	●	●	●	●
Traceable histograms	●	●	●	●	●
Stored column formulas	●	●	●	●	●
Maximum list size	999	999	999	No Limit	No Limit
Number of lists	No Limit	No Limit	No limit	No Limit	No Limit
Named lists	●	●	●	●	●
Min and max values	●	●	●	●	●
Median, quartiles	●	●	●	●	●
MATRICES					
QR factorization				●	●
LU decomp.				●	●
Max number	Up to 10	Up to 10	Up to 10	No Limit	No Limit
Size	50 x 50	50 x 50	50 x 50	No Limit	No Limit
Matrices with symbolic elements				●	●
Function of a matrix				●	●
Eigenvectors				●	●
Eigenvalues				●	●
Matrix mathematics	●	●	●	●	●

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SCIENCE					
Physical constants		Flash	Flash		●
Metric conversions		Flash	Flash	●	●
Significant figures		Flash	Flash		
DataMate™		Flash	Flash	DataQuest™	DataQuest™
CBR 2™ compatibility	●	●	●	●	●
CBL 2™ compatibility	●	●			
Unit conversion		Flash	Flash		●
FINANCIAL FUNCTIONS					
MIRR, NFV	●	●	●	●	●
TVM solver	●	●	●	●	●
Cash flows, amortizations	●	●	●	●	●
Interactive TVM solver	●	●	●	●	●
PROGRAMMING					
Assembly programming	●	●	●		
User-defined functions				●	●
User-defined programs	●	●	●	●	●
FLASH APPLICATIONS					
CellSheet™		Flash	Flash		
Text editor		Flash			
Periodic table		Flash	Flash		
Organizer		Flash			
StudyCards™		Flash			
Electrical and mechanical engineering					
Science tools		Flash	Flash		
Cabri™ Geometry					
Cabri™ Jr.		Flash	Flash		
OTHER SPECIFICATIONS					
Projectable display		Available	SmartView™	Available	Available
Electronic upgradability		●	●	●	●
Slide-on carrying case	●	●	●	●	●
Catalog help		Flash	●	●	●
Catalog of functions	●	●	●	●	●
Prior entry recall	●	●	●	●	●
COMMUNICATION					
PC link cable	Available	Included	Included	Included	Included
Computer connectivity software	●	●	●	Included	Included
Unit-to-unit cable	●	Mini USB cable	Mini USB cable	Mini USB cable	Mini USB cable
Built-in USB port		●	●	●	●
I/O port	●	●			
POWER SUPPLY					
Rechargeable battery			●	●	●
Battery	Alkaline	Alkaline	Lithium	Lithium	Lithium
WARRANTY					
Period of guarantee (years)	3	3	3	3	3

TEXAS INSTRUMENTS