

Casio Comparison Chart/ Specifications	TI-82	CFX-9850	COMMENTS
Color Display		•	FX-9850: Overwrite multiple graphs in different colors, color code data, graphs, and formulas, color shading & tracing.
Display	8 x 16	8 x 21	Lines by character
Menus	pull-down	icon menu	
Fraction ↔ Dec ↔ Mixed Number & Calculations	F ↔ D only	•	FX-9850: Fractions can be used in any calculation.
Graph types	4 types no inequality	5 types	rectangular, parametric, polar, recursive expressions, & Inequalities: TI-82: simulates inequalities in "Draw-Shade"; 2 functions maximum. FX-9850: shades solution for up to 20 inequality functions. Also, all 5 graph types can be graphed at the same time & same screen.
Graphing functions	up to 10	up to 20	Functions defined, saved, graphed, analyzed at a time.
Graph analysis	•	•	Interactive analyses of function values, roots, maximums, minimums, intersections, intercepts, integrals, and derivatives. FX-9850: needs no seeding values, or upper/lower bounds. Find all roots/intersections without starting over.
Dynamic Graphing		•	Actively changing graph shows graph change as one coefficient, in the function, changes for a specific range of values. User chooses equation and coefficient. (NCTM standards)
Conics Analyzer		•	FX-9850: draws/analyzes ellipses, circles, hyperbolas, parabolas. Finds...foci, line of symmetry, directrix, vertex, length
Function Memory		•	6 User defined functions can be used anywhere.
System of equations solver		•	Use up to 6 equations and 6 unknowns simultaneously, then solve.
Polynomial equations solver		•	Instantly solve for all real and complex roots.
Integration	•	•	FX-9850: numerically calculates definite integral and automatically shades area under the curve. TI-82: Must set upper and lower bounds. Doesn't shade area.
Graph Scroll		•	FX-9850: Graph window scrolls to follow cursor as it traces outside of the viewing area. Equation(s) appear(s) with graph in viewing window.
Zoom options:	11	16	FX-9850 include several auto zoom features.
Auto-Range feature	see comments	•	TI-82: Has auto range feature for data graphs only. FX-9850: Save your 6 favorite viewing-windows to recall later.
Dual Graph screens		•	FX-9850: True Dual screen graphing-allows analysis of separate sets of graphs on the same screen. Screen splits vertically allowing user to have different graphs or different viewing windows on either side. Ex. view all of function on 1 side & zoom of same function on the other side.
Graph-text toggle button or split screen	split screen	G↔T toggle	TI-82/FX-9850: View graph on ½ of screen and function list, home screen, or table on other ½ of screen at the same time. FX-9850: Use G↔T toggle button to switch between full screen-sized graphs, and function list or home screen.
Draws VERTICAL Lines (x=c)		•	
Sketch Features	•	•	Draws points, circles, tangent lines, horizontal lines.
Tables	•	• up to 20	Table shows numeric evaluation of functions in table format- up to 6
Matrix at least 20 x 20 matrix... more if memory available	•	•	FX-9850: up to 27 matrices can be stored TI-82: up to 5 matrices can be stored
Matrix operations	•	•	Include: Inverse, determinant, transpose, augmented & row operations. FX-9850: Amazingly easy & quick row operations. Even with fractions. FX-9850: Store matrix values in a list or lists into a matrix.
List based one and two variable statistics	•	•	TI-82: 6 lists, include 3 additional reg. models, median-mean line FX-9850: 36 lists-all above reg. Models & full list manipulations.
Table ↔ List ↔ Matrix		•	Transfer data from area to area for easier data manipulation.
Data analysis GRAPHS	•	•	Histograms, scattergrams, and regression equations. FX-9850/TI-82: 3 stat graph memories & up to 6 stored pictures.
Box-whisker plots	1 type	2 types	TI-82: Median box only. CFX-9850: Mean and median box plots.
Sequence Graphs: time series, & Cobweb	•	•	
Links to CDA or CBL data analysis devices	•	•	Casio CDA needs little or no programming to run.
Complex numbers		•	
Computer LINK and unit to unit link	•	•	Both include: Mac/IBM link, for printing & storage.
Overhead unit and Poster available	•	•	FX-9850- Infrared teacher's unit transmits to OH panel up to 30 ft. away
Price Range	\$79-85	\$65	

***Functionality can be altered by writing a program, or combining several processes to achieve similar results. The above disregards additional calculator programming/steps.