Calculator Functions for the AP Precalculus Exam

	Task	Calculator Keys	Example
Saving Time & Avoiding Typos	Store Functions	Enter into [Y #=] To retrieve, [RunMat], [VARS], [GRAPH], [#], (value)	Evaluate functions and related expressions $\frac{Y_1(5) - Y_1(3)}{5 - 3}$
	Store Values	[ANS] on home screen [→] ALPHA (pick letter from equ)	Store parameter values of regression model $a = 21.8294384$
[MENU] [5:GRAPH] [Y= equ] [F6: DRAW] Graph Analysis	Find zeros of a function	[F5:G-SOLV] [F1:ROOT]	Determining intervals where a function is positive or negative: identify zeros as endpoints of intervals
	Find intersections of curves	[F5:G-SOLV] [F5:INTERSECT] Use left and right arrows to find multiple points	Solving equations: When is $f(x) = g(x)$?
	Find extrema	[F5:G-SOLV] [F2: MAX] or [F3: MIN] Use left and right arrows to find multiple points	Finding the maximum or minimum value of a certain quantity
[MENU] [2: STATS] Regression	Enter data	List 1 → enter x-values List 2 → enter y-values	Use a regression equation to model data given in a table of values
	To view scatterplot	[F1: GRAPH] [F1: GRAPH1] Make sure Graph1 is [F6:SET] as Graph Type [F1: SCATTER]	
	Calculate regression model	[F2: CALC] [F3: REG] [F1: X], [F1: ax+b] [F6: ▷] [F3: X^2] [F1: LOG] [F4: X^3] [F2: EXP] [F5: X^4] [F4: SIN] [F6: COPY], [Y #=], [EXE] stores the equ	Find a predicted value based on the regression model
	Auto-calculate residuals	[F1: GRAPH], [F6: SET], [F2: GRAPH2] YList [F1:LIST], [3], [EXIT] [SHIFT], [MENU], Resid List [F2: LIST], [3], [EXE], [EXIT]	Determine if *f* is best modeled by a linear, quadratic, exponential, or logarithmic function.
	Graph residual plot	[F1: GRAPH], [F1: GRAPH2]	