

PLOT AND SOLVE EXAMPLE

Step	Type	Press	Comments
1	'X^2-3*X-3'	[PLOT] [STEQ]	Establish the current equation
2	'PPAR'	[PURGE]	Purge existing plot parameters
3	(-3.5,-6)	[PMIN]	Set lower-left plot coordinates
4	(6.5,16)	[PMAx] [DRAW]	Set upper-right coordinates and draw graph
5	[>] [<] [Δ] [▽]		Move the cursor to digitize the left root
6	[>] [<] [Δ] [▽]	[INS]	Put the cursor coordinates on the stack
7		[INS]	Digitize the right root the same way
8		[ATTN]	Restore the stack display
9		[SOLV]	Activate the SOLVE menu
10		[SOLVR]	Activate the Solver variables menu
11		[X]	Enter the digitized guess for the right root
12		[X]	Solve for the right root [<] 3.79128784747
13		[SWAP]	Exchange levels 1 and 2
14		[X]	Enter the digitized guess for the left root
15		[X]	Solve for the left root [<] -.791287847477

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DIFFERENTIATION EXAMPLE

Continuing from the previous example, find the minimum of the curve by differentiating and solving for the root.

Step	Type	Press	Comments
16	[PLOT]	[RCEQ] [ENTER]	Recall two copies of the equation to the stack
17	'X'	[PURGE]	Formalize X for a symbolic solution
18	'X'	[ENTER] [d/dx]	Differentiate with respect to X [<] '2*X-3'
19		[STEQ]	Establish the new current equation for plotting
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INTEGRATION EXAMPLES

Symbolic Integration	
3: 2: 1:	'X^3+4*X+8' 'X' 3
1:	'8*X+2*X^2+.25*X^4'
Numerical Integration	
3: 2: 1:	'X^3+4*X+8' { X 1 3 } .00001
2: 1:	52 5.1992166102E-4

UNIT EXAMPLES

Simple Units	
3: 2: 1:	80 °F °C
2: 1:	26.6666666667 °C
Compound Units	
3: 2: 1:	1 "b*Mpc/s" "gal/h"
2: 1:	2.93453978138 "gal/h"

