Solving a Quadratic Equation – using the Solve command

Solve $x^2 + 6x + 5 = 0$

Main

Tap the Main screen icon

Press Keyboard.

Either

Tap Action, Equation/Inequality, solve Enter $x^2 + 6x + 5 = 0$ Press or tap EXE

NOTE:

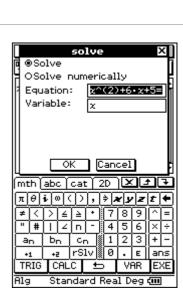
x is the default variable

uso **x**■ ,

Use to type the index 2, then either tap in the next position or press the **right** cursor key once, before continuing typing.

or

Enter $x^2 + 6x + 5 = 0$ Select the entire equation Tap Interactive, Equation/Inequality, solve Tap OK



► Edit Action Interactive |X|| $\frac{1}{2} \frac{1}{2} \frac{1}{2}$

Two solutions are given: x = -5, x = -1

V E			tion	Int	era	ctiv	ve	X
막날) ∙ i	íd×− íd× ŧ	1	•	h)	•		≽
solve		.2+	6 x +	5=0)			F
L			{	x=·	-5,:	χ=-	1}	
Ρ								
								ļ
	abo		at	2D		30	±)	
mth πθ	abo i 0	1.	at)				t t	
	- 1	1.	at) D,					
۳Ø	i ∞ √		<u>, []</u> ∎∕∎) 7 4			± [^ ^	
	- 1		at)), √⊡ log_[) 7 4			± [[× +	•
	i ∞ √		<u>, []</u> ∎∕∎) 7 4	8		^ × +	

We can then edit the solve command to change the equation :

Select the entire line with the solve command text

Then **drag the selected** text to a new line (don't press **EXE**)

Highlight the 5, type **9**.

Press or tap EXE

This then yields only ONE solution x = -3.

In a similar manner, edit the solve command to solve $x^2 + 6x + 7 = 0$

This then yields TWO exact solutions $x = -3 \pm \sqrt{2}$.

In a similar manner, edit the solve command to solve $x^2 + 6x + 12 = 0$

This then yields no real solutions.

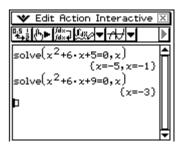
Alternatively, merely highlight the item(s) to be edited, type the replacement(s), then press or tap **EXE**.

For example, solve $x^2 - 8x + 16 = 0$ by highlighting +6, typing -8, and then highlighting 7, typing 16.

Press or tap **EXE**

This then yields only ONE solution x = 4.

	_
♥ Edit Action Interactive	X
ष्≛伤► <i>╠</i> ≈⋥&⋈⋈ ▼ ≁⊀∕▼	
solve(x ² +6.x+5=0,x)	F
$\{x=-5, x=-1\}$	
solve(x ² +6·x+5=0,x)	
	E



🛛 🛛 Edit Action Interactive	X
°₽₽₽₩≈₽₩≈₽₩≈₽₩₽₽₩₽	»
solve(x ² +6.x+5=0,x)	•
{x=-5, x=-1}	Π
solve(x ² +6.x+9=0,x)	
{x=-3} solve(x ² +6·x+7=0,x)	
$\begin{cases} x = -\sqrt{2} - 3, x = \sqrt{2} - 3 \end{cases}$	
D (x= yz =0, x= yz =0)	Ц ▼

