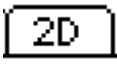Solving a Quadratic Equation – using the Solve command
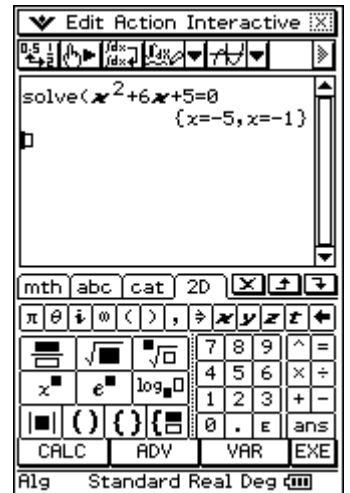
Solve $x^2 + 6x + 5 = 0$

Tap the Main screen icon

Press **Keyboard**.

Tap 2D

Either

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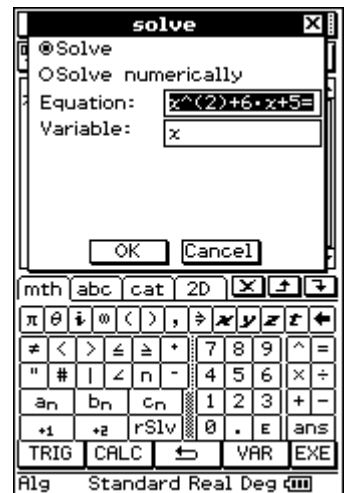Enter $x^2 + 6x + 5 = 0$
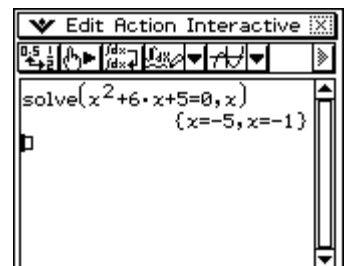Press or tap **EXE**

NOTE:

x is the default variable

Use $x^{\blacksquare}$ to type the index 2, then either tap in the next position
or press the **right** cursor key once, before continuing typing.

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or

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

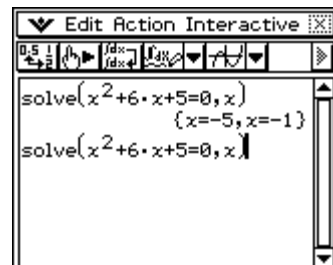Two solutions are given: $x = -5$, $x = -1$

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

Select the entire line with the solve command text …..

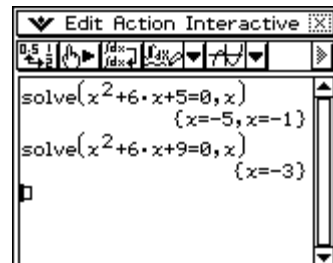Then **drag the selected** text to a new line …….
(don't press **EXE**)

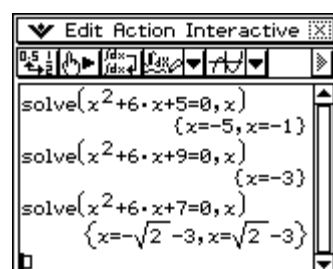Highlight the 5, type **9**.

Press or tap **EXE**

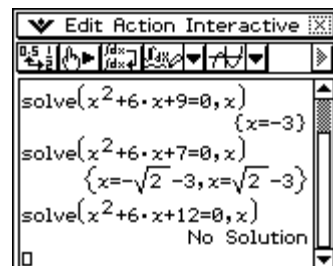This then yields only ONE solution $x = -3$.

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

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

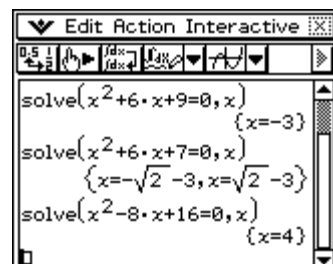In a similar manner, edit the solve command to solve $x^2 + 6x + 12 = 0$

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 $x = 4$.