

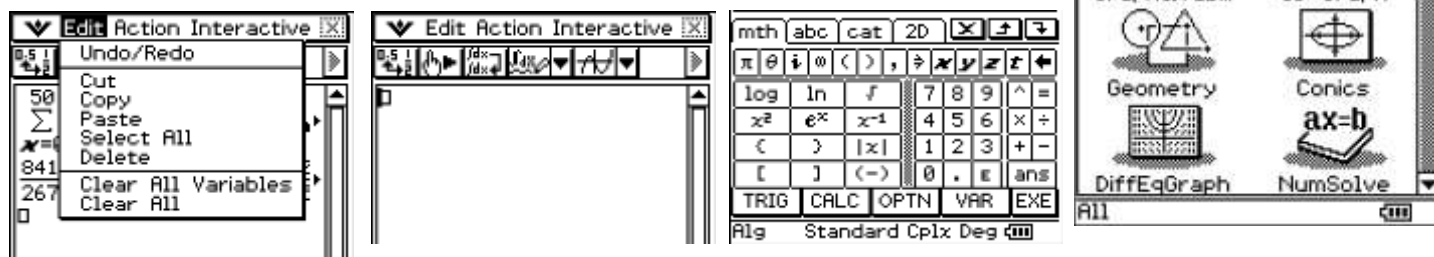
Complex Numbers.

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This activity links the Main window together by using **the commands related to Complex Numbers.**

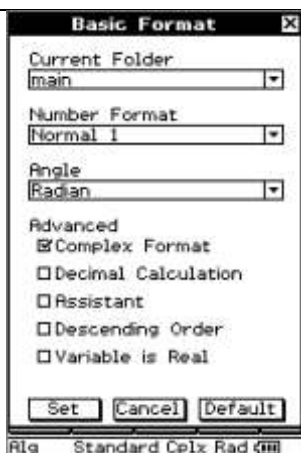
Enter the **MAIN** icon from the **MENU**.

Clear any work you have so that the working area is 'clean select 'Clear All' and tap on 'OK'. Remember that you can use the soft keyboard to enter the equations into the workspace (Press the Keyboard Button).



Make sure that the ClassPad is set up for Complex Number calculations. Via 'Basic Format'.

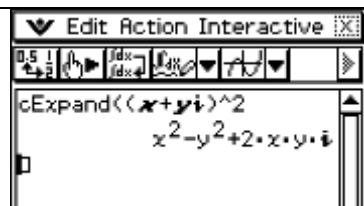
To gain access to the Complex commands, use the dropdown 'Action' then 'Complex'.



Examples:

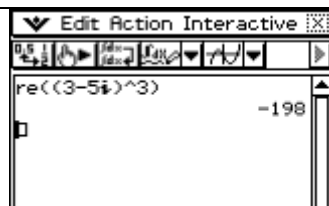
Expand $(x + yi)^2$.

Use the command 'cExpand'.



What is the real part of the complex number $(3 - 5i)^3$?

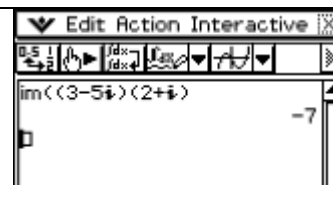
Use the command 're'.



What is the imaginary part of the complex number

$(3 - 5i)(2 + i)$?

Use the command 'im'.



Find the argument of $4 + 5i$.

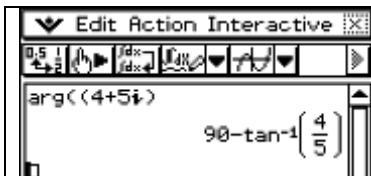
Use the command 'arg'.

Find the conjugate of $3 + 15i$.

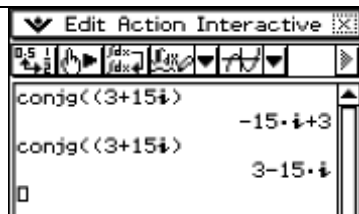
Use the command 'conj'.

Convert $1 + \sqrt{3}i$ into polar form.

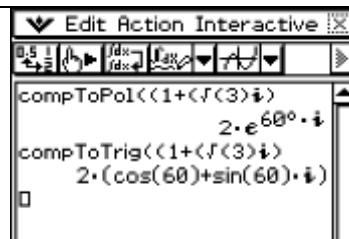
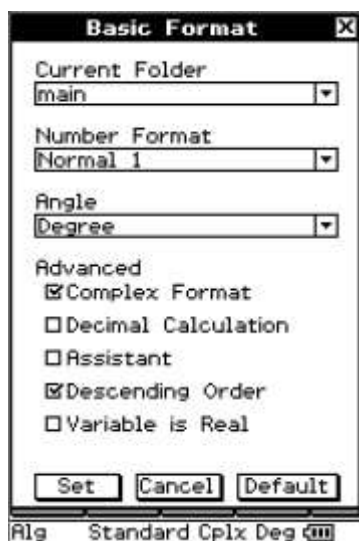
Use the command 'arg'.



Tap on the icon (top left) to calculate.



To display in a + bi format, enter into 'Basic Format' and place a tick in the box for 'Descending Order', then tap 'Set'.



Changing from degrees to radians, enter into 'Basic Format' and select Radian in the dropdownbox for 'Angle', then tap 'Set'.

