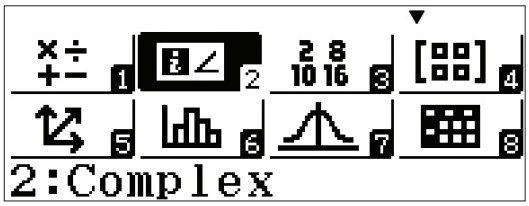
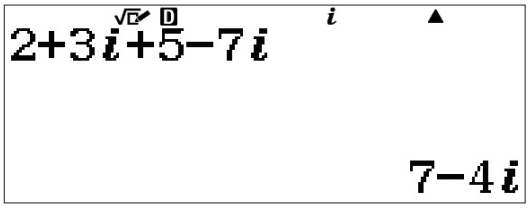
COMPLEX

Complex Number calculations can be executed in the Complex Mode.

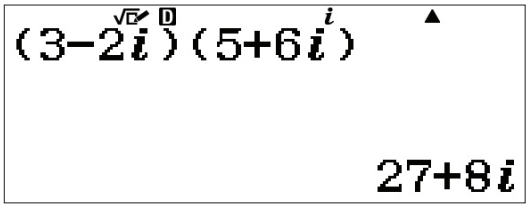
From the Main Menu, use the arrow keys to highlight the Complex icon, then press [=] or press [2].



In Complex Mode, operations can be carried out using the imaginary unit (i). To add complex numbers, press [2] [+] [3] [ENG] (i) [+] [5] [−] [7] [ENG] (i) [=].

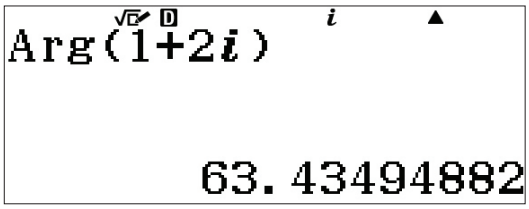


Complex numbers that are multiplied are displayed in complex format. Press [(] [3] [−] [2] [ENG] (i) [)] [(] [5] [+] [6] [ENG] (i) [)] [=].



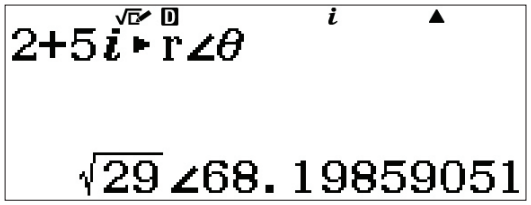
The argument of the complex number 1+2i, can be found by taking the arctan (y/x) = 63.4349° or by using the Argument command.

Press [OPTN] [1] (Argument) [1] [+] [2] [ENG] (i) [)] [=].



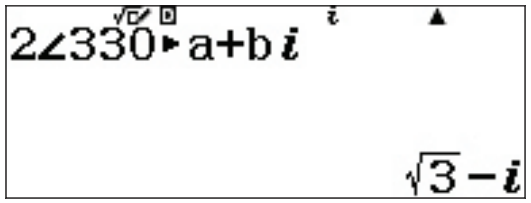
COMPLEX FORM AND POLAR FORM

To convert a complex number into polar form, press
[2] [+] [5] [ENG] (*i*) [OPTN] [▼] [1] (▶*r*∠θ) [=].

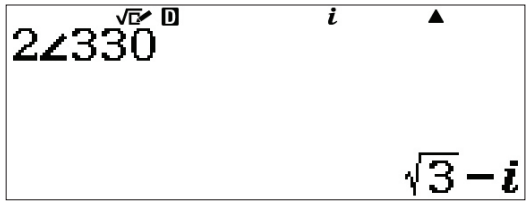


To convert any polar form of a complex number, use the r theta command or type in the angle in polar form.

Press [AC] [2] [SHIFT] [ENG] (∠) [3] [3] [0] [OPTN] [▼] [2] (▶a+bi) [=].



Alternately, simply type in the angle in polar form by pressing
[2] [SHIFT] [ENG] (∠) [3] [3] [0] [=].



These calculations can also be accomplished in radian mode. To change to radian mode, press [SHIFT] [MENU] (SET UP) [2] (Angle Unit) [2] (Radian).