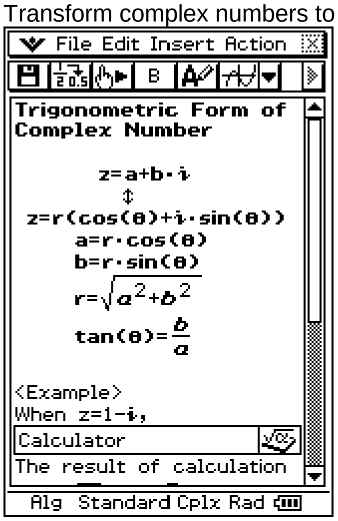
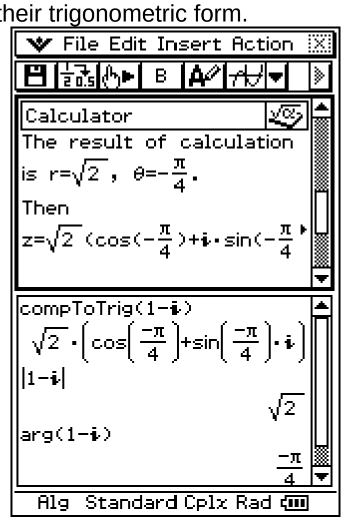
Polar & Complex

This week, we are exploring the relationship between polar and complex coordinates. We will start with changing complex numbers into their trigonometric form. We will then learn how to multiply and divide these complex trigonometric numbers, use de Moivre's theorem and finally, find the nth root of a complex number.

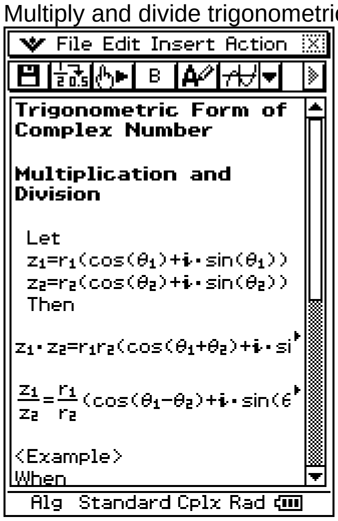
This file includes eActivities on:
1_Trigonometric Form Transform complex numbers to their trigonometric form.
2_Calculation (Multiplication and Division) Multiply and divide trigonometric complex numbers.
3_Calculation Power Use de Moivre's Theorem to harness the power of complex numbers.
4_nth Root Find the nth root of complex numbers.
De Moivre's Theorem

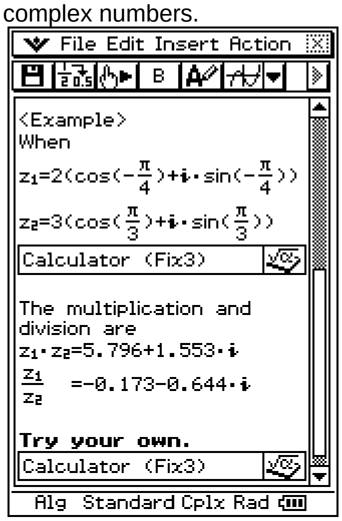
1_Trigonometric Form
Transform complex numbers to their trigonometric form.





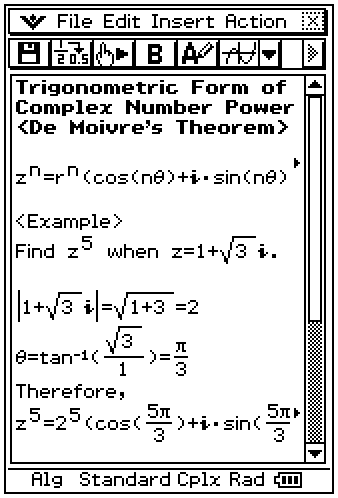
2_Calculation (Multiplication and Division)
Multiply and divide trigonometric complex numbers.

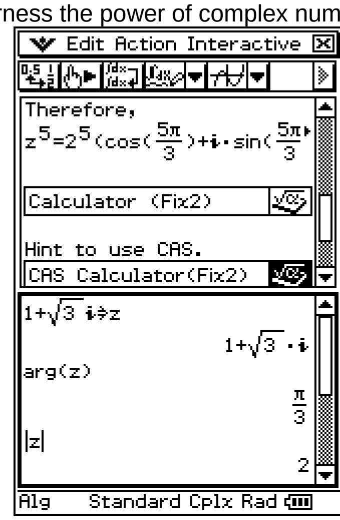




3_Calculation Power

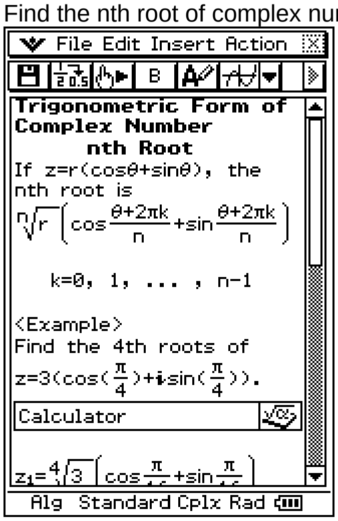
Use de Moivre's Theorem to harness the power of complex numbers.

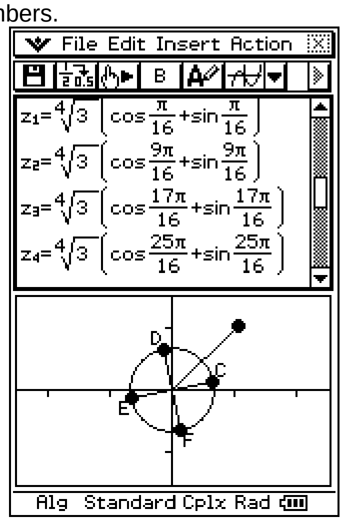




4_nth Root

Find the nth root of complex numbers.





De Moivre's Theorem