Name_____

TRIGONOMETRY JOURNAL COMPLEX NUMBERS

- To find the coordinates necessary to create a polar graph, your calculator must be changed to ______/
 mode and the Table Setup must be changed to _____/
- A real life situation in which it would be more useful to express the location of something in polar coordinates rather than rectangular coordinates is ______.
- 4. List the following formulas and operations.
 a) Formulas for converting rectangular coordinates (x, y) to polar coordinates (r, θ)
 - b) Formulas for converting polar coordinates (r, θ) to rectangular coordinates (x, y)
 - c) Standard form of a complex number in each of the following forms: <u>Rectangular form</u> <u>Polar Form</u>
 - d) Formulas for multiplying and dividing complex numbers in polar form

e) Formula for raising a complex number in polar form to a power (De Moivre's Theorem)

f) Steps for finding the roots of a complex number in rectangular form