Complex Analysis

Math 312 | MWF 10:30-11:25am
Spring 1996 | 201 Fowler

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Worksheet #2 (01/24/96)

SUMMARY Graphic Representations of Complex Numbers

Consider 2 complex numbers $z_1 = 6 + 0.7i$ and $z_2 = 1 + 2i$
Draw an Argand diagram depicting these two complex numbers in the complex plane. What physical quantity do $|z_1|$ and $|z_2|$ represent in the diagram?

Then draw in vectors that represent the complex numbers $z_1 + z_2$ and $z_1 - z_2$
Indicate what the value of $|z_1 - z_2|$ is. If I had two points at (6,0.7) and (1,2) what would the distance between these two points be?

Consider the equation $|z - 1| = \text{Re } z + 1$ Sketch the set of points which solve this equation.