Homework assigned Friday, January 27.

Problem 1. Compute the following

- (a) $\arg(\sqrt{3}-i)$.
- (b) $Arg(\sqrt{3}-i)$.
- (c) $\log(\sqrt{3}-i)$.
- (d) $Log(\sqrt{3}-i)$.

Problem 2. Show that $\log(zw) = \log(z) + \log(w)$.

Problem 3. Find all solutions to cos(z) = 3

Problem 4. Find a general formula for all solutions to cos(z) = w and sin(z) = w.