Homework assigned Friday, January 27.

Problem 1. Compute the following
  (a) $\arg(\sqrt{3} - i)$.
  (b) $\mathrm{Arg}(\sqrt{3} - i)$.
  (c) $\log(\sqrt{3} - i)$.
  (d) $\mathrm{Log}(\sqrt{3} - i)$.

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 $\sin(z) = w$.