

MATLAB Assignment for Homework 1
Due Friday Sept. 26, 2008 (with other part of HW1)

In MATLAB, the function *angle* applied to a complex number, z , will yield the principal value of $\arg(z)$. Let $z_1 = -1 + i$, $z_2 = \sqrt{3} + i$, and $z_3 = 1 + i\sqrt{3}$. Verify, using MATLAB, that $\text{angle}(z_1 z_2) = \text{angle}(z_1) + \text{angle}(z_2)$ but $\text{angle}(z_1 z_3) \neq \text{angle}(z_1) + \text{angle}(z_3)$. EXPLAIN THE DISPARITY IN THESE RESULTS.

Must, have an m file that should be turned in with the commands and results, as well as the explanation in words.