

Homework 1.
Due September 23.

1. Textbook, Ch. 1, Problem 3.
2. Textbook, Ch. 1, Problem 13.
3. Textbook, Ch. 1, Problem 16.
4. Textbook, Ch. 1, Problem 21.
5. Textbook, Ch. 1, Problem 26.
6. (MATH 9024 only) Formulate a possible definition of divergence of a sequence of complex numbers $\{z_n\}$, $n = 1, 2, \dots$. Using that prove that the sequence $\{z_n = e^{in} = \cos n + i \sin n\}$ diverges.