Physics 230

Homework Set 4

Due Date: Thursday September 17, 2015

Textbook problems listed below:

11.5.1, 11.5.6, 11.5.7, 11.5.8

Obtain the first four terms of the Laurant Series expansion for the following functions

1. $\exp(z)/z(z^2 + 1)$ for $0<|z|<1$
2. $1/\sin(z)$ for $0<|z|<\pi$
3. $1/(\exp(z) - 1)$ for $0<|z|<2\pi$

Reading Assignment 4 (Ch. 11, Complex Variable Theory)

List of pages: 492 - 497