

Physics 230

Homework Set 9

Due Date: Thursday October 15, 2015

Do the following textbook problems in the order given

15.3.3, 15.3.4, 15.3.1, 15.3.2

Calculate the integral $\int dx/(1 + \sin^2 x)$ with the limits $0 - 2\pi$ using the residue theorem. No reference to any other integral should be made in your calculation.

Reading Assignment: (Ch. 15, Legendre Functions)

List of pages: 736 - 739