Oberlin College Physics 212, Spring 2021

Assignment 5:

Waves II; Complex Arithmetic

Wednesday, 3 March

Problems: Due Wednesday, 10 March. There are eight problems here, more than I usually assign, but the last six are relatively easy. (Yet they are still worth 10 points each. This is a good problem assignment to boost your grade.) The first two problems are from “Notes on Waves”, the final six problems are from Invitation to Quantum Mechanics.

• problem 5.1: Interferometry: Using light waves as a ruler
• problem 6.1: Character of the single-slit diffraction intensity curve
• all six problems C.1 through C.6 in appendix C, “Complex Arithmetic”, from Invitation to Quantum Mechanics