

PHYS 1312 EOC - Homework Assignment No. 2

Chapter 23 and extra Problems, Aug. 30, 2022

Due: Sept. 9, 2022

Extra Problem 1. The distance between an object and its upright image is 20.0 cm. If the magnification is 0.500, what is the focal length of the lens being used to form the image? (answer: -40.0 cm)

Extra Problem 2. The distance between the eyepiece and the objective lens in a certain compound microscope is 23.0 cm. The focal length of the eyepiece is 2.50 cm and that of the objective is 0.400 cm. What is the overall magnification of the microscope? (answer: -575)

Also do, chapter 23 problems from Chabay and Sherwood: P41, P47, and P49.