Homework Assignment #8

Due in class, Friday March 7

Each problem is worth 10 points, for a total of 120 points.

2. Exercise 2 of Chapter 36. Focusing a camera. (Image height=39.0 mm)
3. Exercise 8 of Chapter 36. Exposure time. (1/250 s)
5. Exercise 16 of Chapter 36. Looking at a bug with a magnifier. (8.00 cm)
7. Exercise 24 of Chapter 36. Telescopes. (a. 120 cm)
8. Problem 42 of Chapter 36. Galilean telescope. (b. −15 cm)
11. Problem 60 of Chapter 14. Floating ice. (c. 9.24 cm$^3$)
12. Problem 68 of Chapter 14. Buoyancy. (a. 1.24×10$^3$ kg/m$^3$)