

**Practice Problems**

These problems are not to be handed in, but try them first; also try the even problems if you need more practice.

- From §4-1 (pages 215&216): 17, 19, 21, 33–39 odd;
- From §4-2 (pages 222&225): 51–57 odd;
- From §4-7 (pages 260–262): 35, 37, 63, 65, 67.

The answers to these should be in the back of your textbook.

**Due Problems**

These problems are due November 8 Thursday.

In each of the following problems, show at least what numerical calculation you make or what equation you solve, and be sure to include the correct units in your final answer.

- 1 If a piece of charcoal contains 30% of its original amount of carbon-14, then how old is this piece of charcoal? (The half-life of carbon-14 is approximately 5730 years.)
- 2 Suppose that the demand for a product with price  $p$  is given by

$$D(p) = \frac{1000}{p^2}.$$

What is the elasticity of demand?