## Angel and Shreiner: Interactive Computer Graphics, Sixth Edition

## Chapter 9 Solutions

9.2 Start with the definition of fractal dimension (page 322)

$$d = \frac{\ln k}{\ln n}.$$

We can measure values of k and n based on the idea that the ruler length (or scale) determines n and the measured distance with that ruler determines k. If the coastline is a fractal, a plot of these number for different rulers (maps of different resolutions) on log log paper should be approximately linear with the slope of the line yielding the fractal dimension.