

Tutorial 1c

Symmetry and Self-similarity

Shekhar “Shakes” Chandra

1 Fractal Dimensions

Show that the fractal dimension of the Koch curve is

$$D = \frac{\log 4}{\log 3} = 1.2619 \quad (1)$$

Likewise, compute the fractal dimensions of the Cantor set and the Sierpinski gasket. [Hint: See chapter 4.3 of [PJS](#)]