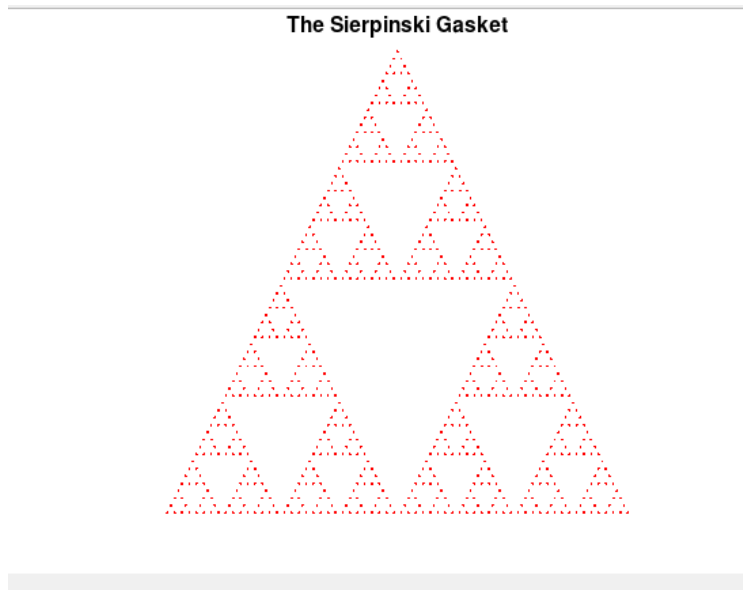


1. (01) Use the given file named `sierpinsky.m` to generate Sierpinski gasket at various sizes. (Function call is of the form `sierpinsky(n)` where n is a power of 2 (32, 64, 128 etc.). Observe the patterns you get. Comment about its self similarity.

Sierpinski (32)

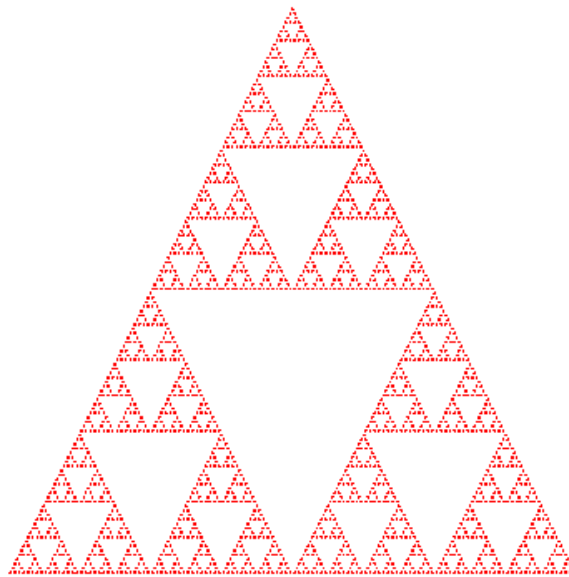


Sierpinski (64)



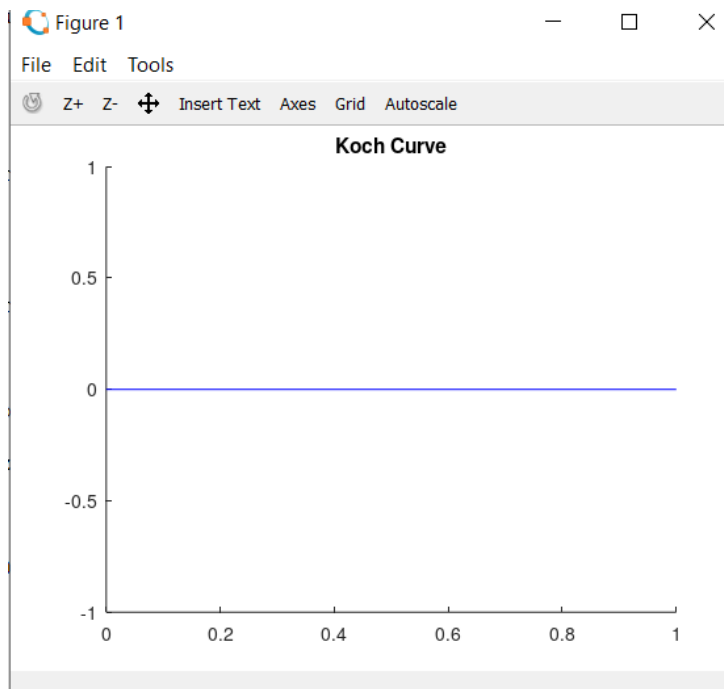
Sierpinski (128)

The Sierpinski Gasket

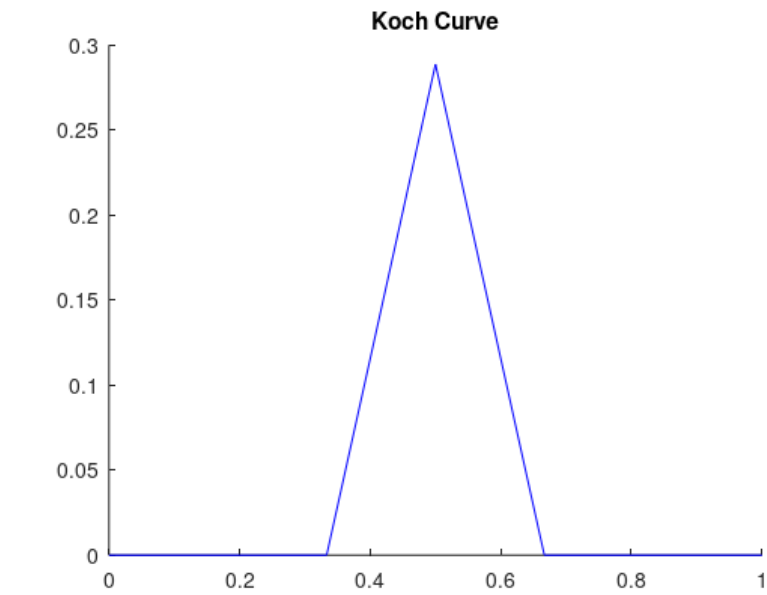


Dimensions = $d = \log x / \log y = \log(3) / \log(2) = 1.585$

Koch(1)

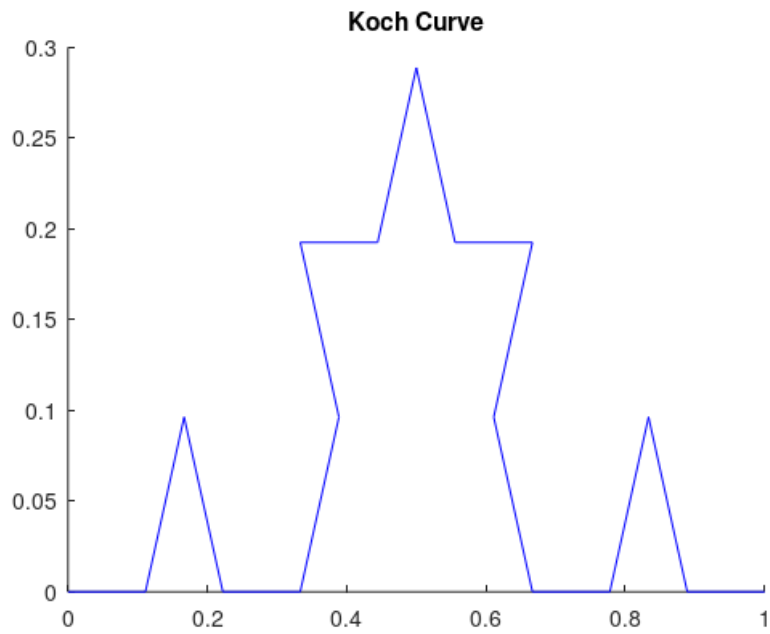


Koch (2)

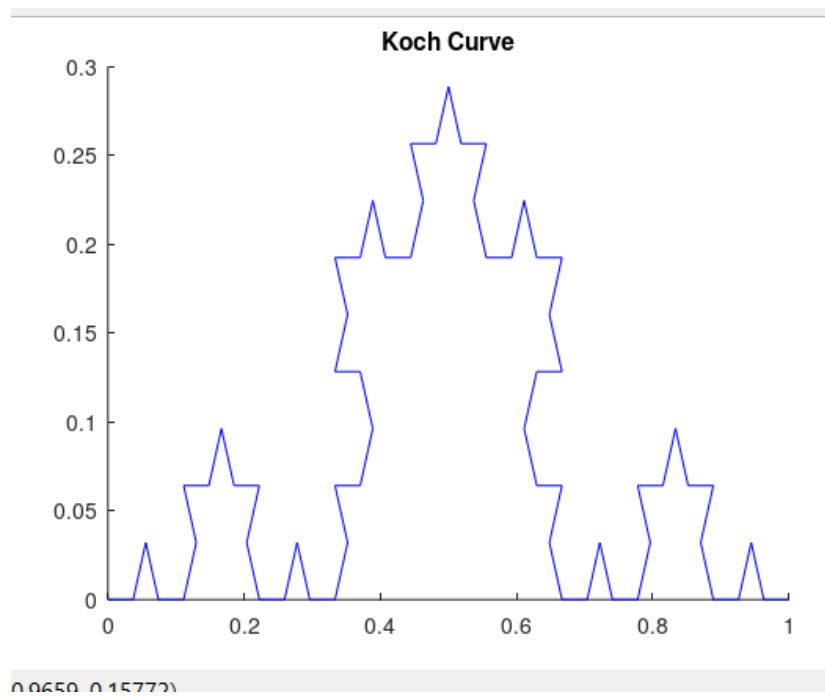


0.55733 0.00100000

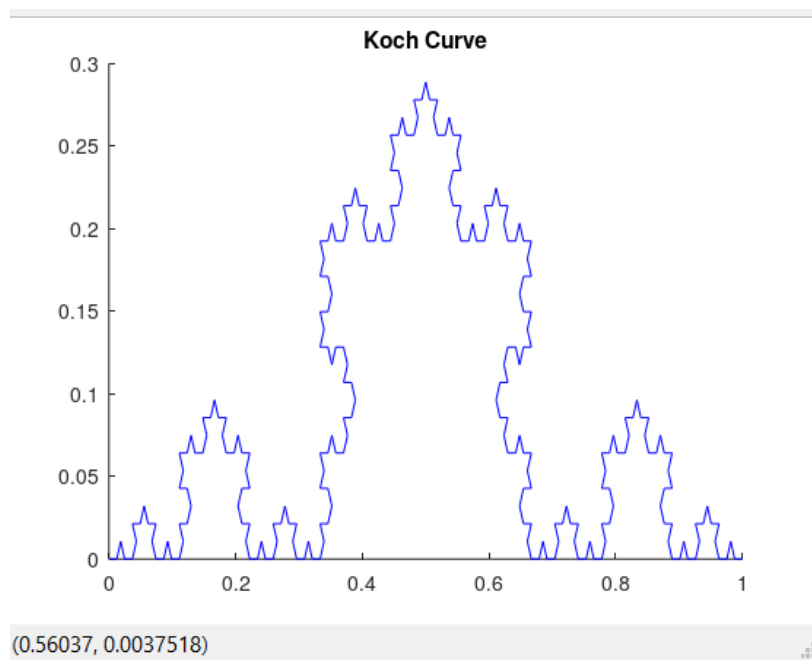
Koch (3)



Koch(4)



Koch(5)



$$\text{Dimensions} = d = \log x / \log y = \log(4) / \log(3) = 1.2618$$