

Koch's Snowflake

Exploration Questions

The Koch Curve is the most recognized "line bender" fractal.

Directions: Draw several iterations of the [Koch Curve](#), filling in the table below.

Iteration	1	2	3	4	5
Number of Segments per Side					
Length of a Segment					
Total Length of Curve					

Answer the following questions:

- What would the total length of the N-th iteration be? Look at the patterns made by the numbers both before and after simplifying.
- What do you expect the Koch Curve to look like? In other words, what would you expect to happen if you repeated this infinitely many times?

- What is the length of the Koch Curve?

- Can you estimate the area at each stage? What is the area of the final snowflake?