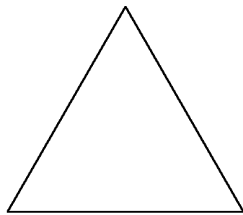

Interactive Koch Snowflake

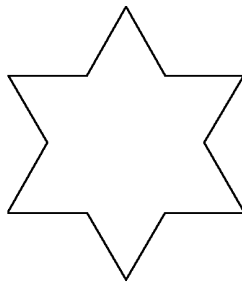
Koch's Snowflake curve is constructed like this:

1. Start with an equilateral triangle. This is order 1.
2. Repeat $n - 1$ times: Replace the middle third of each side with two sides of an equilateral triangle.

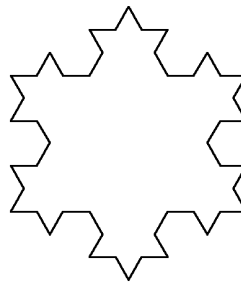
The new sides always form a triangular shape pointing outwards. The first four orders look like this:



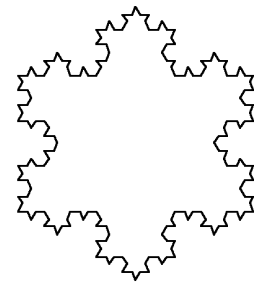
Order 1



Order 2



Order 3



Order 4

Task

Write an interactive program with a user interface that draws a Koch's snowflake of a given order. The program should display the snowflake on the screen as graphical output. The user interface should use a responsive design. Create a product demonstration video for your client to show and explain the user interface and the algorithm that is behind your program.

Relates to Objectives

1.1 1.2 1.3 2.1 2.2 2.3 2.4 2.5 2.7 3.3 3.5 4.1 4.5 4.7

(1 point, Individual)