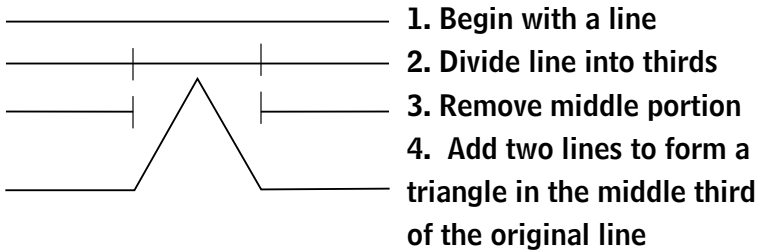


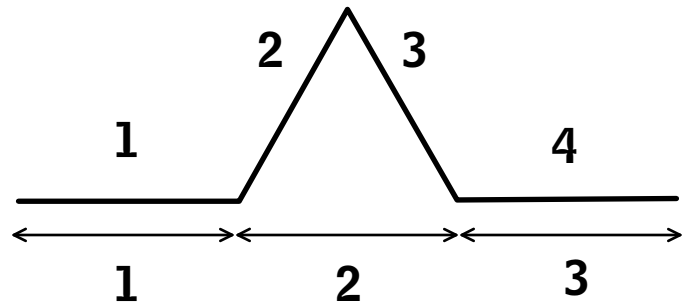
Figure 4 - Fractal objects are generated by iteration of an algorithm, or formula. The Koch Curve is an example, generated by 4 steps, which are then repeated-iterated -over and over indefinitely, or as long as you want. To the right and below is the method of calculating the fractal dimension for the Koch curve.

KOCH CURVE

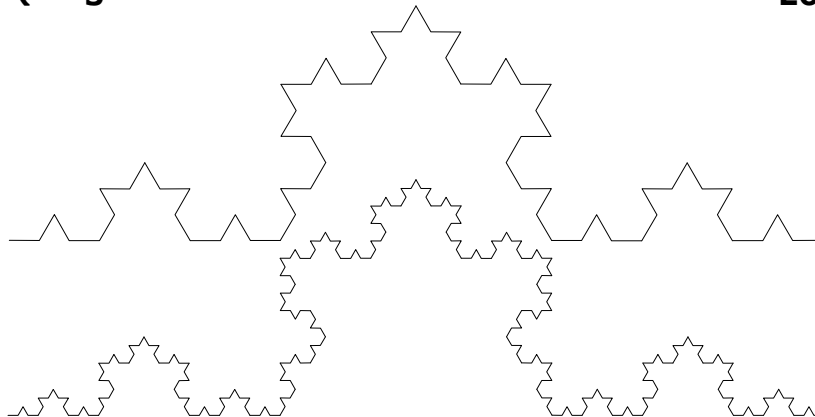
First Iteration



Repeat Steps 1 - 4



$$D = \frac{\text{Log } N \text{ (number of new pieces)}}{\text{Log } M \text{ (magnification: factor of finer resolution)}} = \frac{\text{Log } 4}{\text{Log } 3} = \frac{.602}{.477}$$



Koch's Curve has a fractal dimension of 1.2618595071429