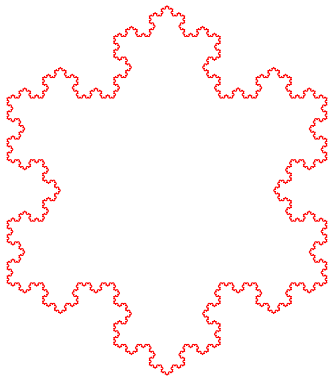

Figure 38.6: The snowflake curve

Example 38.5. The snowflake curve obtained after 5 iterations is shown in Figure 38.6.

The snowflake curve is an example of a closed curve of infinite length bounding a finite area.

We conclude with another famous example, a variant of the *Hilbert curve*.

Example 38.6. This version of the Hilbert curve is defined by the following four contractions:

$$\begin{aligned} x' &= \frac{1}{2}x - \frac{1}{2}, \\ y' &= \frac{1}{2}y + 1, \end{aligned}$$

$$\begin{aligned} x' &= \frac{1}{2}x + \frac{1}{2}, \\ y' &= \frac{1}{2}y + 1, \end{aligned}$$

$$\begin{aligned} x' &= -\frac{1}{2}y + 1, \\ y' &= \frac{1}{2}x + \frac{1}{2}, \end{aligned}$$

$$\begin{aligned} x' &= \frac{1}{2}y - 1, \\ y' &= -\frac{1}{2}x + \frac{1}{2}. \end{aligned}$$