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Exploring Fractals – The GeoGebra Way

By At Right Angles | Aug 9, 2019

In an article published in the November 2016 issue of At Right Angles we had seen how geometrical fractal constructions lead to algebraic thinking. The article had highlighted the iterative construction processes, which lead to the Sierpinski triangle and the Sierpinski Square carpet. Further the idea of self-similarity within these fractals was reinforced through the recursive and explicit relationships between various stages of the fractal constructions. After a quick recap of the Sierpinski triangle construction we shall explore how fractals can be constructed using the dynamic geometry software, GeoGebra. The steps for downloading the software are given at the end of the article. Readers will require a basic familiarity with the construction tools of GeoGebra for attempting the construction process. We shall also explore the number sequences which emerge from these fractal constructions.

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