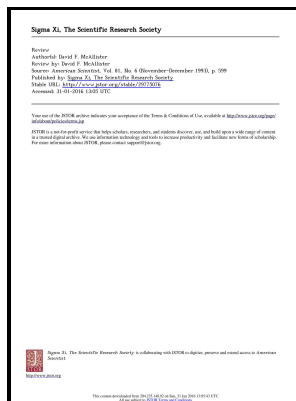


Fractals for the classroom - strategic activities

Springer-Verlag published in co-operation with the National Council of Teachers of Mathematics (NCTM) - Fractals for the Classroom: Strategic Activities Volume One



Description: -

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Fractals for the Classroom: Strategic Activities Volume Two

The striking graphic images, unexpected geometric properties, and fascinating numerical processes offer unparalleled opportunity for enthusiastic student inquiry. Chaos, Fractals, and Dynamics: Computer Experiments in Mathematics.

Fractals for the Classroom: Strategic Activities Volume Two

Another is to show how fractals connect to many different aspects of mathematics and how the study of fractals can bring these ideas together. Within each group, every student contributes thoughts and ideas.

Fractals

Fractals continue to supply an uncommon setting for animated teaching and learning activities that focus upon fundamental mathematical concepts, connections, problem-solving techniques, and many other major topics of elementary and advanced mathematics. Written at the mathematical level of an advanced secondary student, Fractals for the Classroom includes many fascinating insights for the classroom teacher and integrates illustrations from a wide variety of applications with an enjoyable text to help bring the concepts alive and make them understandable to the average reader.

Peitgen H.

What is the Koch snowflake? This third and final volume of Strategic Activities on fractal geometry and chaos theory focuses upon the images that for many people have provided a compelling lure into an investigation of the intricate properties embedded within them. This unit is intended to introduce the pervasive concepts of fractals and chaos to high school physics students. The tools that Thomas includes leads students to construct, observe, conjecture, and debate their thinking.

Fractals for the Classroom: Strategic Activities Volume Two

To the mathematics teacher, fractals offer a unique, new opportunity to illustrate both the dynamics of mathematics and its many connecting links.

Fractals for the Classroom: Strategic Activities Volume Two

Another is to show how fractals connect to many different aspects of mathematics and how the study of fractals can bring these ideas together. Fractals provide a setting wherein students can enjoy hands-on experiences that involve important mathematical content connected to a wide range of physical and social phenomena. The huge number of iterations necessary for a proper investigation of fractal forms is beyond the ability and patience of a human--but if computers can be said to have a talent, it might best be described as the ability to do the same thing over and over and over again to iterate and iterate.

Exponents

After a few minutes, allow each set of groups to merge and ask them to select the best answer from the two choices, which will be presented to the complete class. These are subjects which have attracted immense interest throughout the whole range of numerate disciplines, including science, engineering, medicine, economics, and social science, to name but a few. The most pervasive is the compelling desire to provide students of mathematics with a set of accessible, hands-on experiences with fractals and their underlying mathematical principles and characteristics.

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