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too far behind in recognizably. The fractal is a byproduct of an algorithm known as "Newton's method".

## Mitch Richling: Newton Fractal

This is a fractal. A fractal is a pattern that contains smaller versions of itself. But it ' s not just any fractal. It ' s a fractal I created from something called Newton ' s method. Newton ' s Method. Let ' s say we have a mathematical function called  $f(x)$ . I chose one specifically for this demonstration. Here is a graph:

## Fractals from Newton ' s Method - A Trivial Knot

Now that we have a rudimentary understanding of Newtons Method we would like to venture into the world of fractals.

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**Physics**  
In essence a is a mathematical set that typically displays self-similar patterns, which means it is “ the same from near as from far. ” Or to paraphrase Benoit Mandelbrot:

## Newton's Method and Fractals - Austin G. Walters

Fatou sets in Julia (Fractals, Newton basins, Mandelbrot)  
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