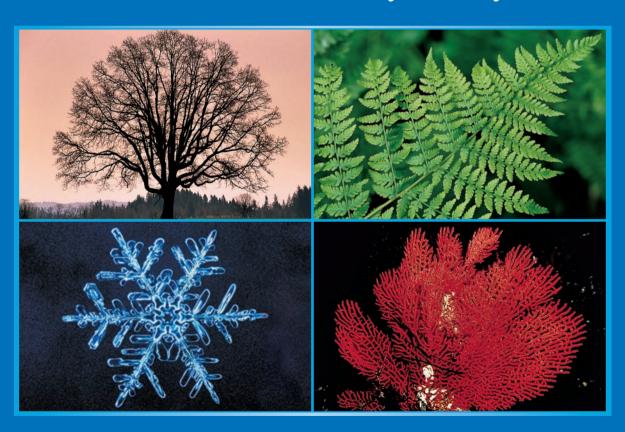
SEQUENCES AND SERIES

How is a fractal formed?



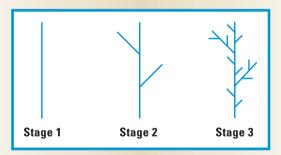
CHAPTER

APPLICATION: Fractals

ave you ever noticed how a fern leaf looks like a miniature version of the fern? When the parts of an object are similar to the whole object, the object is called self-similar. A fractal is a complex shape that basically looks the same at different levels of magnification and is generally self-similar.

Think & Discuss

The diagram shows the first three stages in the growth of a fractal plant.



- 1. Draw the next stage in the growth process.
- 2. Describe in words how the fractal plant changes from one stage to the next.
- 3. What could you do to make the fractal plant look even more realistic?

Learn More About It

You will find the number of branches in a fractal tree in Exercise 45 on p. 685.



APPLICATION LINK Visit www.mcdougallittell.com for more information about fractals.

