

CHAPTER 3

LIMITS AND CONTINUITY

In this chapter, the study of calculus begins. The idea of a *limit*—getting arbitrarily close to something (without necessarily getting there!)—is fundamental to calculus. Without it, it would be impossible to speak precisely of continuity, differentiation, and integration.

This chapter, therefore, begins by studying limits. The definition of limit is then used to make precise the idea of a continuous function.