CHAPTER 6 ANTIDIFFERENTIATION

In the previous two chapters, the focus has been on differentiating a given function; i.e., given f, find f'.

Our attention now shifts to a new idea: given a function f, we seek another function F whose derivative is f. That is, given f, we seek F such that F' = f. So, in a sense, we are *undoing* differentiation, and hence the new function F is called an *antiderivative* of f.

The current chapter focuses on techniques for finding the antiderivatives of a function. It will be seen that if one has an antiderivative for a function f, then it can be used to find the *area bounded between the graph of* f and the x-axis.

