

## Chapter 7 Applications Of Definite Integrals

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Chapter 7 Applications of Definite Integrals Section 7.1 Integral as Net Change (pp. 378-389) Exploration 1 Revisiting Example 2 1.  $\int_0^1 (t^2 + 2t) dt = \left[ \frac{1}{3}t^3 + t^2 \right]_0^1 = \frac{1}{3} + 1 = \frac{4}{3}$  Thus,  $\int_0^1 (t^2 + 2t) dt = \frac{4}{3}$ . This is the same as the answer we found in Example 2a. 3.  $\int_0^1 (5t^3 + 8t^2 + 14t + 3) dt = \left[ \frac{5}{4}t^4 + \frac{8}{3}t^3 + 7t^2 + 3t \right]_0^1 = \frac{5}{4} + \frac{8}{3} + 7 + 3 = \frac{15}{4} + \frac{8}{3} + 10 = \frac{45}{12} + \frac{32}{12} + \frac{120}{12} = \frac{197}{12}$ . This is the same answer we found in Example 2b. Quick Review 7.1 1.

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3 0 4 CHAPTER 6 APPLICATIONS OF THE DEFINITE INTEGRAL 6.1 AREA FIGURE 6.1 Y a \. g(.1) h x If a function I is continuous and  $f(x) \geq 0$  on  $[a, h]$ , then, by Theo- rem (5.19), the area of the region under the graph of  $f$  from  $a$  to  $b$  is given by the definite integral  $\int_a^b f(x) dx$ . In this section we shall consider the

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