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7.1 Integral as Net Change (pp. 378–389) Exploration
1 Revisiting Example 2 1. $\int_0^1 (x^2 + 2x) dx = \left[\frac{x^3}{3} + x^2 \right]_0^1 = \frac{1}{3} + 1 = \frac{4}{3}$
 $\int_0^1 (x^2 + 2x) dx = \frac{1}{3} + 1 = \frac{4}{3}$ Thus, $\int_0^1 (x^2 + 2x) dx = \frac{4}{3}$
11 1 16 3 3 =+ + += This is the same as the answer
we found in Example 2a. 3. $\int_0^1 (x^2 + 2x) dx = \frac{1}{3} + 1 = \frac{4}{3}$
+= This is the same answer we found in Example 2b.
Quick Review 7.1 1.

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If f and g are continuous functions on the interval a, b
and if $f(x) \geq g(x)$ for all x in $[a, b]$ then
 $\int_a^b f(x) dx \geq \int_a^b g(x) dx$
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FerulloMath - Chapter 8: Applications of Definite Integrals

3 0 4 CHAPTER 6 APPLICATIONS OF THE DEFINITE INTEGRAL 6.1 AREA FIGURE 6.1 $Y a \setminus. g(.l) h x$ If a function l is continuous and $f(x) \geq 0$ on $[a, h]$, then, by Theo- rem (5.19), the area of the region under the

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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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Chapter 7: Applications of Definite Integrals. One application of integrals is to find the length of a smooth curve. It's pretty straightforward, as all you have to do for these questions is use a formula. If a function $f(x)$ is continuous and differentiable on $[a, b]$, then the length of the the curve $y = f(x)$ from a to b is: ...

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