

Chapter 7 Applications Of Definite Integrals

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Chapter 7 Applications Of Definite

Title: Chapter 7. Applications of the Definite Integral in Geometry, Science, and Engineering 1 Chapter 7. Applications of the Definite Integral in Geometry, Science, and Engineering. By : Jiwoo Lee ; Edited by : Wonhee Lee; 2 Area Between Two Curves. If f and g are continuous functions on the interval a,b and if f(x) > g(x) for all x in

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McLees, Melissa Ms. / Chapter 7-Applications of the ...

Chapter 7 Applications of Definite Integrals Section 7.1 Integral as Net Change (pp. 378-389) Exploration 1 Revisiting Example 2.1. $\int_0^1 (x^2 + 2) dx = \left[\frac{x^3}{3} + 2x \right]_0^1 = \frac{1}{3} + 2 = \frac{7}{3}$. This is the same as the answer we found in Example 2a. 3. $\int_0^1 (x^2 + 2) dx = \frac{1}{3} + 2 = \frac{7}{3}$. This is the same answer we found in Example 2b. Quick Review 7.1.1.

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596 CHAPTER 7 APPLICATIONS OF THE DEFINITE INTEGRAL 7.1 Computing Area by Parallel Cross-Sections In Section 6.1 we computed the area under $y = x^2$ and above the interval $[a, b]$, and later saw that it equals the definite integral

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To find the points of intersection, solve $x^4 - 4 = 5x^2 + 10$. $x^4 - 5x^2 - 14 = 0$. $(x^2 - 7)(x + 2) = 0$. Chapter 7 — Applications of Integration 15 So $x^2 - 7 = 0$ or $x^2 + 2 = 0$. But $x^2 = -2$ is not possible (for real numbers x) and so we are left with $x^2 = 7$, thus $x = \pm\sqrt{7}$. So the two curves cross just twice and between $x = -\sqrt{7}$ and $x = \sqrt{7}$.

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382 Chapter 7 Applications of Definite Integrals What we learn from Examples 2 and 3 is this: Integrating velocity gives displacement (net area between the velocity curve and the time axis). Integrating the absolute value of velocity gives total distance traveled (total area between the velocity curve and the time axis).

Chapter Applications of Definite Integrals

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A review of the key concepts of Chapter 7. This video is unavailable. Watch Queue Queue

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You have already learned that area is only one of the many applications of the definite integral. Another important application is its use in finding the volume of a three-dimensional solid. In this section, you will study a particular type of three-dimensional solid—one whose cross sections are similar. Solids of revolution are used commonly in

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