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Section 7.8 Economics Applications of the Integral. Link to worksheets used in this section. We have looked at the definite integral as the signed area under a curve. This lets us compute total profit, or revenue, or cost, from the related marginal functions.

Chapter Applications of Definite Integrals

In this section we use definite integrals to study rectilinear motion and compute average value. FTC, part II In this section we learn the second part of the fundamental theorem and we use it to compute the derivative of an area function.

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This section features lectures on the definite integral, the first fundamental theorem, the second fundamental theorem, areas, volumes, average value, probability, and numerical integration.

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Integral and its Applications

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1. Applications of the Indefinite Integral

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