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constant during a motion, we can find the displacement (change in position) with the formula Displacement rate of change time. But in our case the velocity varies, so we resort instead to partitioning the time interval

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.

Applications of Definite Integrals - Ximera The integral is also called as anti-derivative as it is the reverse process of differentiation. Types of Integrals. There are basically two types of integrals, Definite and Indefinite. Definite Integral is defined as the integral which contains definite limits, i.e., upper limit and lower limit. It is also named as Riemann Integral.

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function, or when counteracting the force of gravity, as in a pumping problem.

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1. Applications of the Indefinite Integral Chapter 2 : Applications of Integrals. In this section we're going to take a look at some of the Applications of

Integrals. It should be noted as well that these applications are presented here, as opposed to Calculus I, simply because many of the integrals that arise from these applications tend to require techniques that we discussed in the previous chapter.

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