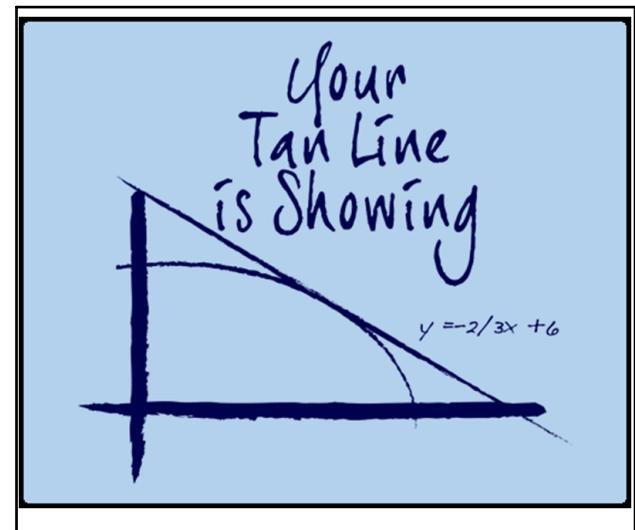


(28)

$$25000 - 2363 - 720x = 0$$

Dec 9-10:55 AM



Dec 5-12:01 PM

5-2 Definite Integrals

Learning Objectives:

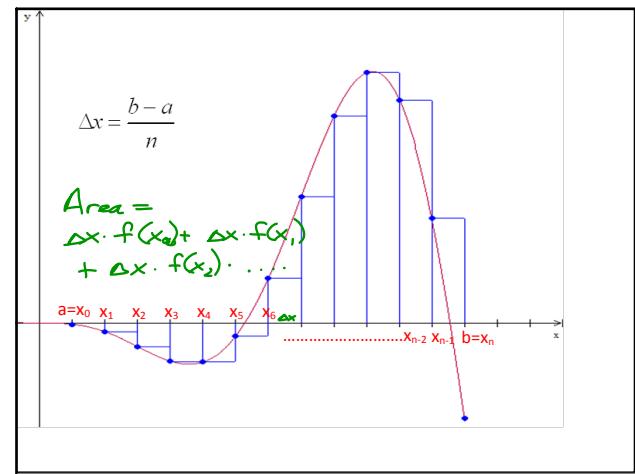
I understand how the Rectangle Approximation Method, when taken to the limit, yields a definite integral.

I can find the value of a definite integral by using Geometry.

I can evaluate a definite integral using the graphing calculator.

I understand the terminology and notation associated with integration.

Nov 14-11:48 AM



Nov 14-11:48 AM

$$\text{Area} = f(x_0) \cdot \Delta x + f(x_1) \cdot \Delta x + f(x_2) \cdot \Delta x + \dots + f(x_{n-2}) \cdot \Delta x + f(x_{n-1}) \cdot \Delta x$$

$$= \sum_{k=0}^{n-1} f(x_k) \cdot \Delta x$$

Nov 14-11:48 AM

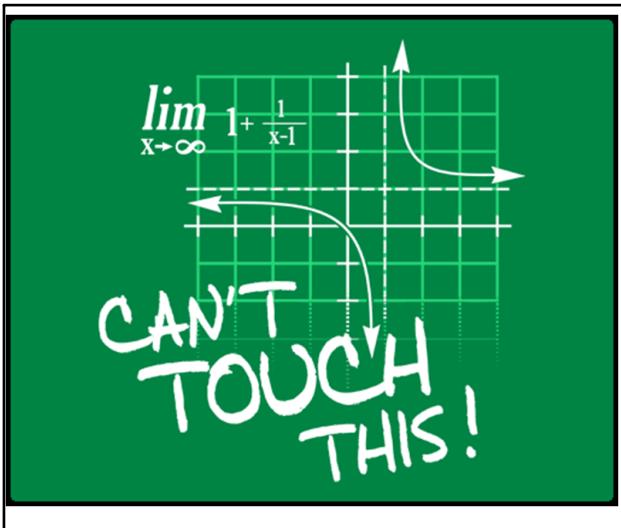
$$I = \lim_{n \rightarrow \infty} \sum_{k=0}^{n-1} f(x_k) \cdot \Delta x$$

I = Actual area between the curve and the x-axis.

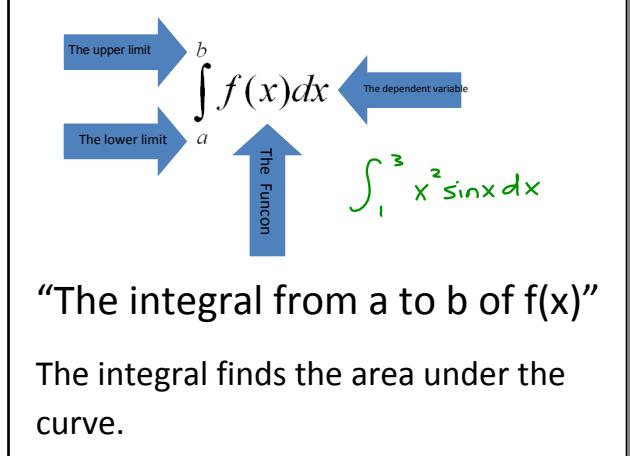
$$\lim_{n \rightarrow \infty} \sum_{k=0}^{n-1} f(x_k) \cdot \Delta x = \int_a^b f(x) dx$$

integral

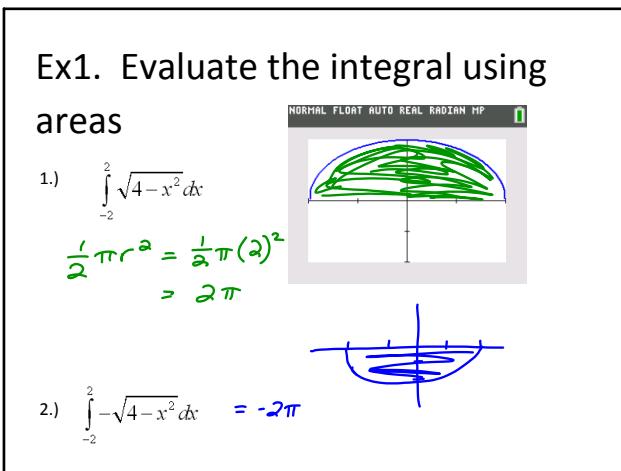
Nov 14-11:48 AM



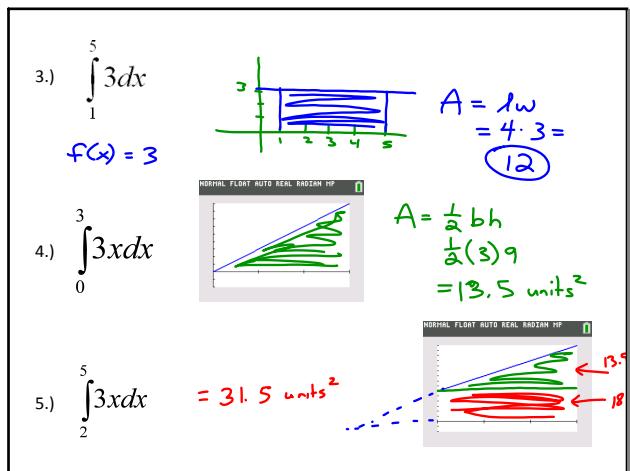
Dec 5-12:34 PM



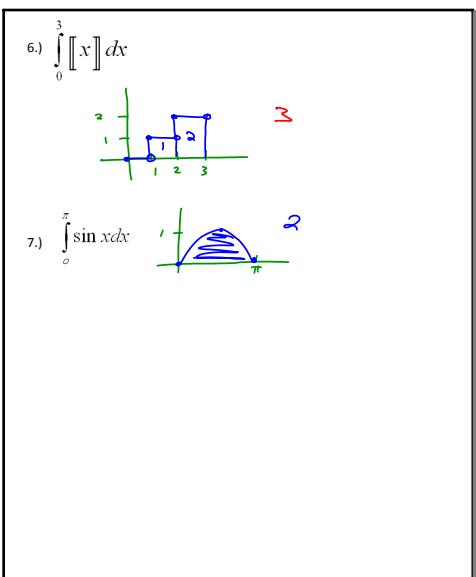
Nov 14-11:48 AM



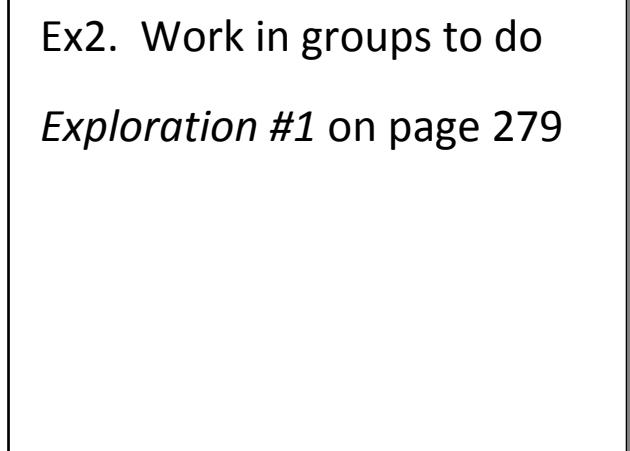
Nov 14-11:48 AM



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Nov 14-11:48 AM



Nov 14-11:48 AM

Homework

Pg 282 # 7-19 odd (no GC)

33-40 (with GC)

41-44, 46

Nov 14-11:48 AM