

Problem Set #10

AP Calculus AB

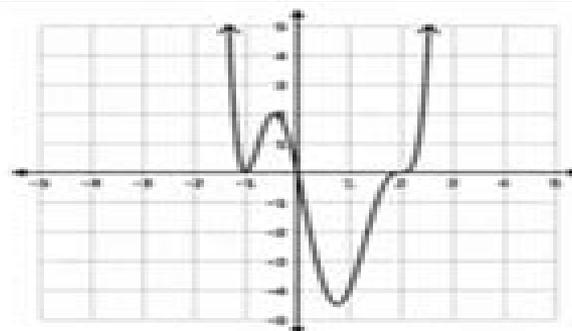
Cumulative Review

Name: KEY**Directions:** Find each of the following. Show all work!1. Use the graph of the velocity, $v(t)$, to answer the following:a. At what time, t , is the object at rest? Justify. $t = -1, 0, 2$ because the velocity, $v(t)$, is zero.

b. On what interval(s) is the object moving to the left? Justify.

 $(0, 2)$ because the velocity, $v(t)$, is negative.

c. Locate and classify all local maximum(s)/minimum(s). Justify.

 $v(t) = s'(t)$ solocal max. at $t = 0$ because $v(t)$ changes from positive to negative.local min. at $t = 2$ because $v(t)$ changes from negative to positive.2. Let R be the shaded region bounded by the graphs $f(x) = 4x + 16$ and $g(x) = 2x^2 + 10$.a. Set up, but do not evaluate, an integral expression to find the area of R .

$$\int_{-1}^3 [f(x) - g(x)] dx$$

b. Set up, but do not evaluate, an integral expression to find the volume of the solid generated when R is revolved around the horizontal line $y = 3$.

$$\pi \int_{-1}^3 [(f(x) - 3)^2 - (g(x) - 3)^2] dx$$

c. The region R is the base of a solid. For this solid, each cross section perpendicular to the x -axis is a rectangle whose height is 4 times the length of its base. Set up, but do not evaluate, an integral expression to find the volume of the solid.

$$\int_{-1}^3 4 [f(x) - g(x)]^2 dx$$

3. Evaluate: $\lim_{x \rightarrow \infty} \frac{x}{\ln x}$

$$\left. \begin{array}{l} \lim_{x \rightarrow \infty} x = \infty \\ \lim_{x \rightarrow \infty} \ln x = \infty \end{array} \right\} \frac{\infty}{\infty} \therefore \text{L'Hopital's applies}$$

$$\lim_{x \rightarrow \infty} \frac{x}{\ln x} = \lim_{x \rightarrow \infty} \frac{1}{\frac{1}{x}} = \lim_{x \rightarrow \infty} x = \boxed{\infty}$$

4. Find the particular solution of $f(x)$ given that $f'(x) = x^2 - 2x + 2$ and $f(3) = -1$.

$$\int f'(x) = \int (x^2 - 2x + 2)$$

$$f(x) = \frac{1}{3}x^3 - x^2 + 2x + C$$

$$-1 = \frac{1}{3}(3)^3 - (3)^2 + 2(3) + C$$

$$-1 = 6 + C$$

$$-7 = C$$

$$\boxed{f(x) = \frac{1}{3}x^3 - x^2 + 2x - 7}$$

Ap Calculus Problem Set 5

David S. Kahn



Ap Calculus Problem Set 5:

Ap Calculus Problem Set 5 Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Ap Calculus Problem Set 5**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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