

Problem Set #10

AP Calculus AB

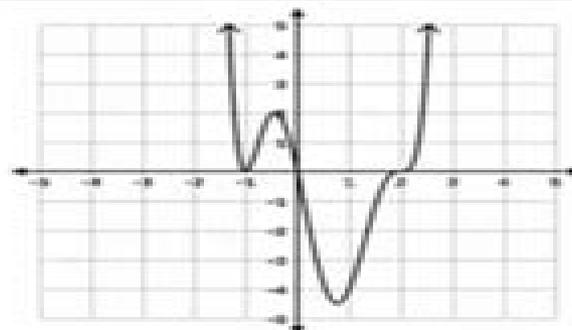
Cumulative Review

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 $f(3) = -1$.

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

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

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

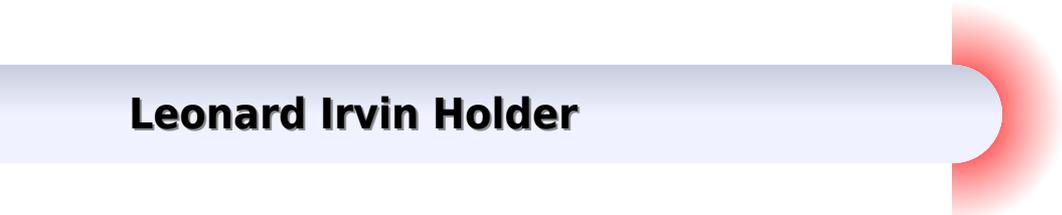
$$-1 = 6 + C$$

$$-7 = C$$

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

Ap Calculus Problem Set 5

Leonard Irvin Holder



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