

**Problem Set #10**

AP Calculus AB

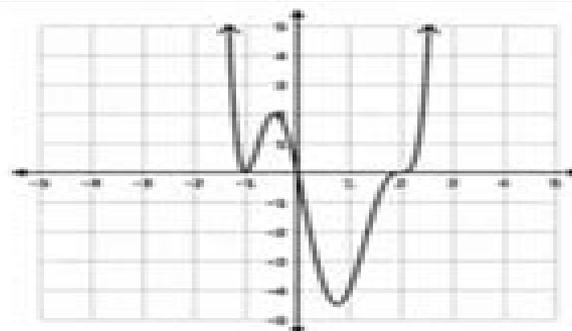
Cumulative Review

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  $f(3) = -1$ .

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

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

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

$$-1 = 6 + C$$

$$-7 = C$$

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

# Ap Calculus Problem Set 5

**J Rink**



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