

Free Response Style Questions!!

1. Let f be a function that is twice differentiable for all real numbers. The table gives values of f for selected points in the closed interval $3 \leq x \leq 11$.

x	3	5	6	9	11
$f(x)$	2	1	-3	2	9

- a. Estimate $f'(4)$. Show all work. **Remember, derivative = slope

$$f'(4) \approx \frac{1-2}{5-3} = \boxed{-\frac{1}{2}}$$

- b. Evaluate $\int_3^{11} (3f'(x) - 1) dx$

$$3 \int_3^{11} f'(x) dx - \int_3^{11} 1 dx = 3[f(x)]_3^{11} - 8 = 3(9-2) - 8 = 3(7) - 8 = \boxed{13}$$

- c. Use a right Riemann sum with 4 subintervals indicated by the table above to

approximate the integral. $\int_3^9 f(x) dx$

$$\text{RRAM} = 2(1) + 1(-3) + 3(2) + 2(9) \\ = 2 - 3 + 6 + 18 = \boxed{23}$$

- d. Use a trapezoidal approximation with 4 subintervals to approximate the integral,

$$\int_3^9 f(x) dx \\ T = \frac{2}{2}(2+1) + \frac{1}{2}(1-3) + \frac{3}{2}(-3+2) + \frac{2}{2}(2+9) \\ = 3 - 1 - \frac{3}{2} + 11 = \boxed{\frac{23}{2}}$$

2. Let f be the function defined by $f(x) = ke^x + \ln x$ for $x > 0$, where k is a positive constant.

- a. Find $f'(x)$ and $f''(x)$

$$\boxed{f'(x) = ke^x + \frac{1}{x}}$$

$$\boxed{f''(x) = ke^x - \frac{1}{x^2}}$$

- b. For what value of the constant k does f have a critical point at $x = 1$? For this value of k , determine whether f has a relative minimum, maximum, or neither at $x = 1$. Justify your answer.

$$\text{answer: } ke^x + \frac{1}{x} = 0$$

$$\boxed{k = -1/e}$$

$$(-\infty, 1): f'(x) > 0 \therefore f \text{ has a}$$

$$(1, \infty): f'(x) < 0 \quad \text{max at}$$

$$x = 1$$

Test pts:

$$x = \frac{1}{2} \quad -\frac{1}{e} \cdot e^{\frac{1}{2}} + \frac{1}{\frac{1}{2}} = 1$$

$$x = 2 \quad -\frac{1}{e} \cdot e^2 + \frac{1}{2} = -2$$

- c. If f has a point of inflection, write an equation for k in terms of x .

$$ke^x - \frac{1}{x^2} = 0$$

$$\boxed{k = \frac{1}{xe^x}}$$

3. Repeat #2 with $g(x) = kx^3 + \ln x$

$$\boxed{a} \quad g'(x) = 3kx^2 + \frac{1}{x}$$

$$g''(x) = 6kx - \frac{1}{x^2}$$

$$\boxed{b}$$

$$3kx + 1 = 0$$

$$\boxed{k = -\frac{1}{3x}}$$

$$\begin{array}{c} f' = \frac{+}{-} \frac{+}{-} \\ f \text{ inc } \quad \quad \text{dec} \end{array}$$

$$\text{Test pts: } x = \frac{1}{2} \quad 3(-\frac{1}{3})(\frac{1}{2})^3 + \frac{1}{\frac{1}{2}} = \frac{1}{4}$$

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

$f(x)$ has a max @ $x = 1$
since for $(-\infty, 1)$ $f'(x) > 0$
and $f'(x) < 0$ for $(1, \infty)$.

$$\boxed{c} \quad 6kx - \frac{1}{x^2} = 0$$

$$6kx = \frac{1}{x^2} \cdot \frac{1}{6x}$$

$$\boxed{k = \frac{1}{6x^3}}$$

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