

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.  $ke^x + \frac{1}{x} = 0$

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

test pts:

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

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

$(1, \infty): f'(x) < 0$  max at

$$x = 1.$$

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

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

$$\boxed{k = \frac{1}{x^2 e^x}}$$

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

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

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

b)

$$3k + 1 = 0 \\ \boxed{k = -\frac{1}{3}}$$

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

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

$f' = \frac{+}{-} \mid \frac{+}{-}$   
 $f$  inc | dec

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

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

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

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

# Mastermathmentor Answer Key

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