

Page No.:

Date:

out
$$\chi = 5$$

$$-e^{-5/5} = -e^{-1}$$

•at
$$x=2$$

$$P(2 \le x \le 5) = (-e^{-1}) - (-e^{-215}) = e^{-215} - e^{-1}$$

$$= 0.6703 - 0.3679$$
. ≈ 0.3024

Left-end points

4. Riemann Sums

1. Approx9 mide the area:

$$\int_{1}^{3} x^{2} dx \quad \text{by calc. each } f(x;). \Delta x, \text{ where } f(x) = x^{2}$$

Reimann Jum =
$$\sum_{i=1}^{h} f(x_i^*) \Delta x_i$$

$$\Delta x = 3-1 = 2 = 1 = 0.5$$

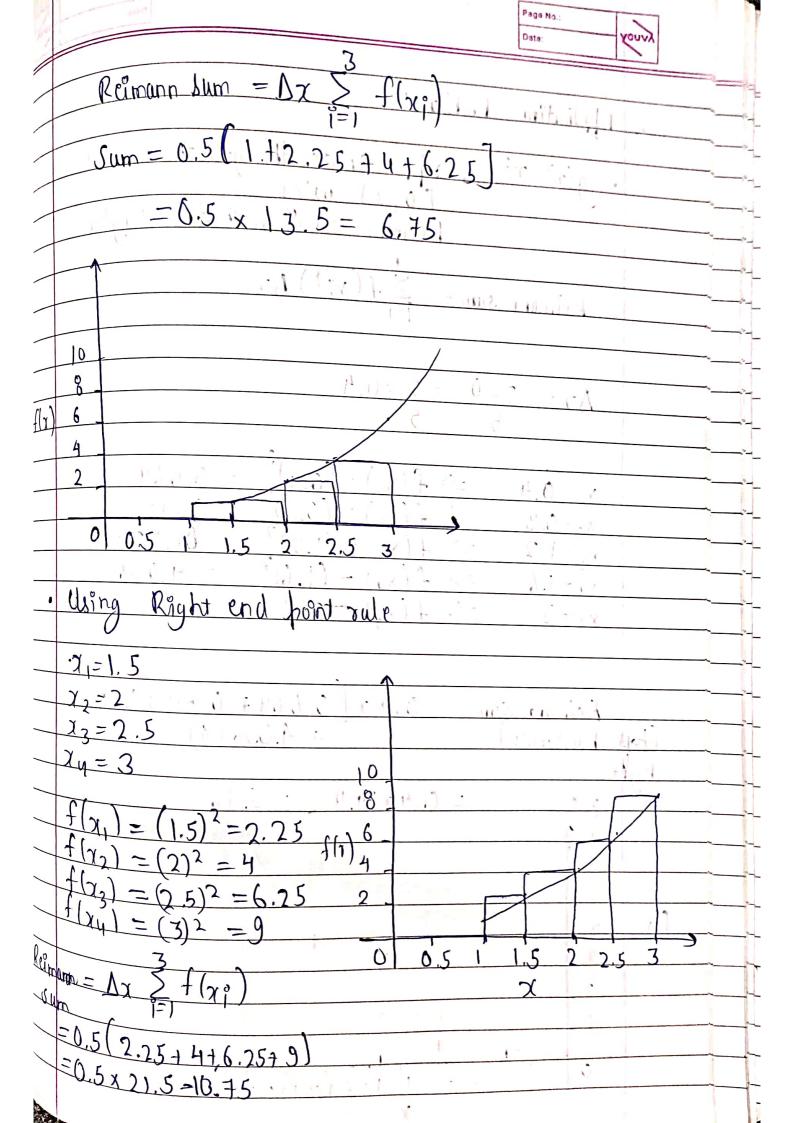
$$\begin{array}{c} \chi_0 = 1 \\ \chi_1 = 1.5 \\ \chi_2 = 2 \\ \chi_3 = 2.5 \\ \chi_4 = 3 \end{array}$$
 Right-end

$$f(x_0)=(1)^2=1$$

 $f(x_1)=(1.5)^2=2.25$

$$f(\eta_2) = (2)^2 = 9$$

 $f(\eta_3) = (2.5)^2 = 6.25$

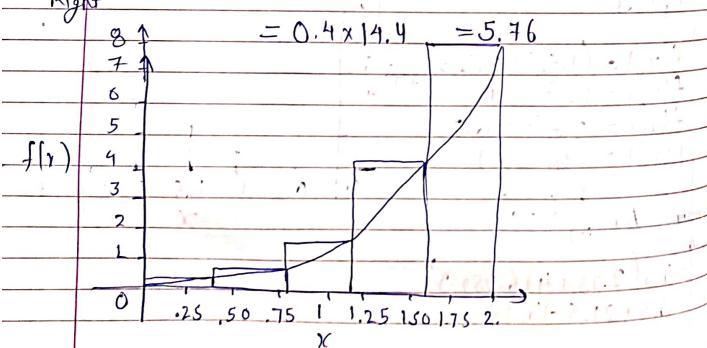


Page No.: Date:
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Reimann sum =
$$\sum_{i=1}^{n} f(x_i^*) \Delta x_i$$

$$\Delta x = \frac{2-0}{5} = \frac{2}{5} = 0.4$$

Reimann Sum = $0.4 \times [0.064 + 0.512 + 1.728]$ (Let hard rule) + 4.09648



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3. Advanced Application						
	advanced Application					
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	Wing Integrals too Date Ingo Us					
	I Using Integrals for Data smoothing:					
	0/1-0. (0.0(2)	1, 1		~		
	$\beta(x) = 2 + \cos(x)$, [0,25]					
	, , , , , , , , , , , , , , , , , , , ,					
				4		
				-		
	Average value = 1 h(x)d>		1			
_	h 0	(
_	6-9	8	-	~~~~		
	271.			~~~		
_	$= \frac{1}{(2+(\alpha_s(x))dx}$			~		
	$2\pi - 0$		y 1			
	211-000		1			
	r 2+1			~~		
	$=$ $\left(2\left(\frac{n}{n}\left(\frac{n}{n}\right)\right)\right)$			~_		
	$=\int_{0}^{\infty} (2+(os(x))dx$					
	211 0		1	~-		
	27 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			~~		
	$= 2(x)^{2+1} + [S(n(x))]_0^{2\pi}$			~		
	$= \frac{12(x)}{0} + \frac{1}{12} \left[\frac{1}{2} $					
	$= 4\pi + 2\pi (2\pi) - 60)$ $Sin Sin$		1			
	$= 4\pi + 4 \left((2\pi) - (0) \right)$			~~		
_						
_	$= 4\pi + (0 - 0)$					
	= 411					
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_	Average Value = $1.4\pi = 2$					
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