## King Fahd University of Petroleum & Minerals Department of Mathematical Sciences Math 102 (111), Quiz # 1 (5.1 & 5.2)

Family name: Sr. #

	43 2							
Q1) Approximate	1° 2	dv taking the	sample point	to he the	Right end	noint with 4	annrovimati	ing rectangles
Q1) Tippioximate	$J_{-1}^{\lambda}$	un taking the	sample point	to be the	Kigin Cha	point with a	approximati	ing rectangles

Q2) Evaluate the integral  $\int_{1}^{-2} (1+x) dx$ .

## Q3) Express the limit as a definite integral $\int_a^b f(x)dx$ i. $\lim_{n\to\infty} \sum_{i=1}^n \frac{i^4}{n^5}$

i. 
$$\lim_{n \to \infty} \sum_{i=1}^{n} \frac{i^4}{n^5}$$

ii. 
$$\lim_{n\to\infty} \sum_{i=1}^n \frac{1}{n}$$