Math	1B (7:30am - 8:20am)
Quiz :	2
Fri O	ct 2, 2009

What month is your birthday? What are the first 2 digits of your address? What are the last 2 digits of your zip code? What are the last 2 digits of your social security number? JIF YOU DO NOT HAVE A SOCIAL SECURITY NUMBER, USE YOUR STUDENT ID NUMBERI

[MULTIPLE CHOICE] Which function and interval does the Integral Mean Value Theorem NOT apply to? SCORE: / 2 POINTS (In other words, which function and interval does **NOT** satisfy all the "if" conditions of the theorem?) DO NOT TRY TO FIND THE AVERAGE VALUE OR THE "c" VALUE.

[A]
$$f(x) = \cos x \text{ on } [0, 2\pi]$$

[C]
$$f(x) = x^{2009}$$
 on [12, 25]

[B]
$$f(x) = \frac{1}{x}$$
 on $[-3, -2]$

[B]
$$f(x) = \frac{1}{x} \text{ on } [-3, -2]$$
[D]
$$f(x) = \ln|x| \text{ on } [-1, 1]$$
AT $\times = 0$

LETTER OF CORRECT ANSWER: [

Give the complete definition of the definite integral.

SCORE: / 2 POINTS

Give the complete definition of the definite integral.

THE DEFINITE INTEGRAL OF
$$f$$
 over $[a,b]$

$$\int_{a}^{b} f(x) dx = \lim_{n \to \infty} \int_{i=1}^{n} f(x_{i}) \Delta x \text{ where } \Delta x = b - a + i \Delta x + i$$