Math 1B (7:30am – 8:20am)	What month is your birthday?
Quiz 4	What are the first 2 digits of your address?
Fri Oct 23, 2009	What are the last 2 digits of your zip code?
	What are the last 2 digits of your social secur
SCORE: /20 POINTS	HE YOU DO NOT HAVE A SOCIAL SEC

rity number? CURITY NUMBER, USE YOUR STUDENT ID NUMBERI

## NO CALCULATORS ALLOWED

Give the complete definition of the definite integral. NO PARTIAL CREDIT.

SCORE: /2 POINTS

## SAME AS #6 ON OTHER QUIZ

The region bounded by  $y = x^2 - 2x$  and y = 3 is revolved around y = 3. Write an integral (or sum of integrals) for the volume. DO NOT EVALUATE THE INTEGRAL. SCORE: /3 POINTS

## SAME AS #1 ON OTHER QUIZ

The base of a solid is the area in the xy-plane bounded by  $y = x^2$  and y = 2 - x. Cross sections perpendicular to the x-axis are semicircles. Write an integral (or sum of integrals) for the volume. **DO NOT EVALUATE THE INTEGRAL.** 

SAME AS #4 ON OTHER QUIZ

State both parts of the Fundamental Theorem of Calculus. NO PARTIAL CREDIT.

SCORE: \_\_\_/ 2 POINTS

## SAME AS #3 ON OTHER QUIZ

The region in the 1<sup>st</sup> quadrant bounded by  $y = x^3$  and y = 4x is revolved around x = 2. Write an integral (or sum of integrals) for the volume <u>USING EITHER THE DISC OR WASHER METHOD</u>. DO NOT EVALUATE THE INTEGRAL.

SCORE: \_\_/3 POINTS

SAME AS #2 ON OTHER QUIZ

The region defined by  $y \ge -2x$ ,  $y \ge x-3$  and  $y \le 0$  is revolved around y = 4. Write an integral (or sum of integrals) for the volume

SCORE: \_\_\_/ 6 POINTS

[a] <u>USING THE DISC OR WASHER METHOD</u>. <u>DO NOT EVALUATE THE INTEGRAL</u>.

SAME AS #56 ON OTHER QUIZ

[b] <u>USING THE SHELL METHOD</u>. <u>DO NOT EVALUATE THE INTEGRAL</u>.

SAME AS #50 ON OTHER QUIZ