Math 1B (9:30am - 10:20am)
Quiz 4 Version C
Fri May 7, 2010

SCORE: ___/ 30 POINTS

What month is your birthday?		
What are the first 2 digits of your address?		
What are the last 2 digits of your zip code?		327 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
What are the last 2 digits of your social security number?	,	
[IF YOU DO NOT HAVE A SOCIAL SECURITY NUMB	ER.	
USE YOUR STUDENT ID NUMBER		
•		

NO CALCULATORS ALLOWED

Find the area between the curves $y = x^2$ and $y = (x-2)^2$ on the interval $0 \le x \le 3$.

SCORE: __/ __ POINTS

SEE TIBO VERSION A QUESTION 3

The region bounded by $y = x^3$ and $y = 2x^2$ is revolved around x = 3.

SCORE: $_/$ $\underbrace{8}$ points

[a] Write, BUT DO NOT EVALUATE, an integral for the volume of the solid USING THE DISK OR WASHER METHOD.

SEE 7:30 VERSION A QUESTION 2a

[b] Write, <u>BUT DO NOT EVALUATE</u>, an integral for the volume of the solid <u>USING THE SHELL METHOD</u>.

SEE 7:30 VERSION A.
QUESTION Jb

SCORE: __/__ POINTS

SEE 7:30 VERSION A QUESTION 1

The base of a solid is the region in the first quadrant bounded by x + 2y = 4 and the x – and y – axes. Cross sections perpendicular to the x – axis are equilateral triangles.

SCORE: __/ POINTS

Write, **BUT DO NOT EVALUATE**, an integral for the volume of the solid.

SEE 7:30 VERSION A QUESTION 4

The region bounded by $y = \frac{x}{2}$, y = x - 1 and y = 0 is revolved around y = 3.

SCORE: __/4 POINTS

Write, **BUT DO NOT EVALUATE**, an integral for the volume of the solid.

SEE 7:30 VERSION A QUESTION 5