| Math 1B (7:30am - 8:20am) |
|---------------------------|
| Quiz 4 Version B |
| 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?
What are the last 2 digits of your social security number?

[IF YOU DO NOT HAVE A SOCIAL SECURITY NUMBER,
USE YOUR STUDENT ID NUMBER]

NO CALCULATORS ALLOWED

The base of a solid is the region in the first quadrant bounded by x + 2y = 4 and the x- and y- axes.

SCORE: / 4 POINTS

Cross sections perpendicular to the x – axis are equilateral triangles.

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

Find the area of the region bounded by $y = \ln x$, x = 4 and y = 0.

SCORE: / 7 POINTS

SEE 7:30 VERSION A QUESTION 1 The region bounded by $y = x^3$ and $y = 2x^2$ is revolved around x = 3.

score: __/\leftarrow 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, **BUT DO NOT EVALUATE**, an integral for the volume of the solid **USING THE SHELL METHOD**.

SEE 7:30 VERSION A

QUESTION 26

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 7130 VERSION A QUESTIEN 3