Math 1B (7:30am – 8:20am) Quiz 6 Version B Fri May 21, 2010

SCORE: $_/30$ POINTS $TOTAL = 26\frac{1}{2}$

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

YOU MUST SHOW PROPER CALCULUS LEVEL WORK TO EARN FULL CREDIT

Find the center of mass of the region between $y = x^3$ and y = -x on the interval [0, 2].

SCORE: __/_ POINTS

SEE 7:30 VERSION A QUESTION 2

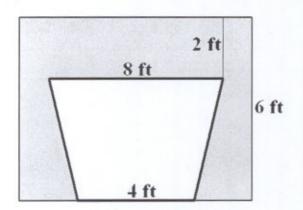
Find the surface area if the curve $x = \sqrt[3]{y}$, $1 \le y \le 8$ is revolved around the x-axis.

SCORE: __/__POINTS

SEE 7:30 VERSION A QUESTION 4 SEE 7:30 VERSION A QUESTION |

Find the hydrostatic force on the trapezoidal plate submerged in water.

NOTE: The bottom of the plate is 6 feet under the surface of the water. You may use ρ as the density of water in your final answer.



SEE 7:30 VERSION A QUESTION 3