Math 1B (7:30am - 8:20am)	
Quiz 5 Version 6	
Fri May 13, 2011	

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 DeAnza ID number?

SCORE: ___ / 30 POINTS

NO CALCULATORS ALLOWED

SHOW PROPER ALGEBRAIC WORK USE PROPER NOTATION & SIMPLIFY ALL ANSWERS WHERE REASONABLE															
A 5 fo	oot long or.) How	chain w	E: CIRCLE veighing 8 po foot-pounds of e" and "after	ounds ha	angs from a l are done lift	hook in t	he ceilin	_					of the ch	ain is 6 f	POINTS feet from
	[<u>a</u>]	25		[<u>b</u>]	10	[9	2] 2	20		[<u>d]</u>	30		[<u>e</u>]	15	
to lift a	25 po	und tab	thing 4 poun eletop from gr EVALUAT	ound lev	vel to a wind	low 20	feet abov	ve groun	nd.				SCOR	E: / 6	POINTS
	St	EE	7:30)	VERS	100	8)							

A tank in the shape of the triangular prism shown on the right is filled with water. Write, BUT DO NOT EVALUATE, an integral for the work required to pump the water out of the spout. SCORE: ___/ 6 POINTS

4 m SEE 7:30 VERSION 8 1 m8 m

The region bounded by x = 1, $y = \ln x$ and y = 1 is revolved around the y - axis. Find the volume of the solid.

SCORE: ___ / 6 POINTS

SEE 7:30 VERSION 8

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

SCORE: ___/ 9 POINTS

[a] Write, **BUT DO NOT EVALUATE**, an integral (or sum of integrals) for the volume of the solid using the shell method.

SEE 7:30 VERSION 8

[b] Write, **BUT DO NOT EVALUATE**, an integral (or sum of integrals) for the volume of the solid using the washer method.

SEE 7:30 VERSION 8

[c] Find the volume of the solid by evaluating the appropriate integral(s) from either [a] or [b].

SEE 7:30 VERSION 8