Calculus II	Name:	
Study Guide 13	Class:	
Due Date:	Score:	
	No Work \Leftrightarrow No Points	
Use	Pencil Only \Leftrightarrow Be Neat & Or	ganized
1. (3 points) Evaluate: \int_1^1	$e^x dx$	
۵۱		1
2. (4 points) Evaluate: \int_0^1	$xe^x dx$	
		2
3. (4 points) Evaluate: \int_0^7	$x \cos x dx$	

4. (2 points) Evaluate:
$$\int_1^1 \tan x^2 dx$$

4. _____

5. (5 points) Evaluate: $\int \cot^{-1} x \, dx$

5. _____

6. (4 points) Evaluate: $\int e^{2x} \sin 4x \, dx$

6. _____

7. (4 points) Evaluate:
$$\int \frac{(\ln x)^2}{x^3} dx$$

7. _____

8. (4 points) Evaluate: $\int \csc^3 x dx$

8. _____

9. (5 points) Find the volume generated by rotating the region bounded by $y=e^x$, $y=e^{-x}$, and x=1 by the y-axis. Drawing required.

9. _____

10.	(5 points) Find the and $x = 2$ by each	e volume generated by rotating the region bounded by a axis. Drawing required.	$y = \ln x, y = 0,$
	(a) (5 points) the	x- axis.	
			()
	(b) (5 points) the	y— axis	(a)
	(e) (e peinte) tire	g	
			(b)