Group Exam 3	Name:
Math 142	Name of group member:
Professor Johnson	Name of group member:
Problem 1: Evaluate the integral.	

$$\int \frac{1}{x^4 \sqrt{x^2 - 1}} \ dx$$

Name:	
Name of group member:	
Name of group member:	
Problem 2 : Evaluate the integral. Evaluate all trig expressions in your final answer.	

Signature line:

Group Exam 3	Name:
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Problem 3: Suppose the region bounded by the curves $y = \cos(\frac{x}{4})$, $2\pi \le x \le 6\pi$, and $y = 0$ is rotated about the wayis. Find the volume of the resulting solid. Evaluate all trig expressions in	

rotated about the y-axis. Find the volume of the resulting solid. Evaluate all trig expressions in your final answer.

Signature line: