Section 006 of Calculus Lab 2, Quiz of February 25, 2003	Name (clearly printed):
11:00-11:15 a.m.	Student Identification Number:
For this quiz, you are to print the Input statement in InputForm (not StandardForm) for MATHEMATICA and the corresponding Output statement that MATHEMATICA gives in order to solve Problems 1 and 2 below.	
As your first Input statement, write your Student Identification Number with a decimal point after it and set id equal to it. Thus, if your Student Identification Number were 123-45-6789, you would write and evaluate id = 123456789. as your first line of Input (with the decimal point). Then, your first Input and Output would look somewhat like	
In[1] id = 1234567	789.
Out[1] id = 1.23456	789 x 10^8
You may have fewer digits in the Output and it may look like $id = 1.2345 \times 10^8$.	
Problem 1. The graphs of the functions	
$f(x) = x^4 - 500$	$-\frac{id}{10^6} \text{and} g(x) = -x^4 + 500 + \frac{id}{10^6}$
intersect in two points (in the real x, y -coordinate plane). Print a MATHEMATICA Input statement (in InputForm) as well as the corresponding OutPut statement for the purpose of finding the x-coordinates of the two points of intersection of $y = f(x)$ and $y = g(x)$.	
Input:	
Output:	
Problem 2. Use the results of Problem 1 to print a MATHEMATICA Input statement (in InputForm) and the corresponding OutPut statement for the purpose of finding the area enclosed between the graphs of $y = f(x)$ and $y = g(x)$.	
Input:	

Output:

(End of Quiz)