Section 003 of Calculus Lab 2, Name (clearly printed):
Quiz of March 4, 2003
10:00-10:15 a.m.
Student Identification Number: $\qquad$
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 $=123456789$.
Out[1] $\quad i d=1.23456789 \times 10 \wedge 8$
You may have fewer digits in the Output and it may look like id $=1.2345 \times 10^{8}$.

Problem 1. Print a MATHEMATICA Input statement (in InputForm) as well as the corresponding OutPut statement for the purpose of using DSolve to find the general solution of

$$
\frac{d^{2} y}{d t^{2}}-5 \frac{d y}{d t}+6 y=\frac{i d}{10^{6}} t^{2}
$$

Input:

Output:

Problem 2. Print a MATHEMATICA Input statement (in InputForm) as well as the corresponding OutPut statement for the purpose of using DSolve to find the solution of the initial value problem

$$
\frac{d y}{d t}+7 y=\frac{i d}{10^{8}} e^{(5 t)} \quad \text { and } \quad y(3)=7
$$

Input:

Output:
(End of Quiz)

