Section 006 of Calculus Lab 2, Name (clearly printed):
Quiz of March 4, 2003
11:00-11:15 a.m.
Student Identification Number: $\qquad$
The first three digets of your Student Identification Number specify an integer. As your first Input statement to be evaluated, set id equal to the that integer written WITHOUT a decimal point. Thus, if your Student Identification Number were 123-45-6789, you would write and evaluate id $=123$ (WITHOUT a decimal point) as your first line of Input. Then, your first Input and Output would look like
In [1] $\quad$ id $=123$
Out[1] 123

Problem 1. Have MATHEMATICA evaluate the Input statement that is given in terms of typewriter characters by

$$
\text { DSolve [y', }[\mathrm{t}]-5 \mathrm{y} \text { ' }[\mathrm{t}]+6 \mathrm{y}[\mathrm{t}]==\mathrm{id} * \operatorname{Cos}[2 \mathrm{t}], \mathrm{y}[\mathrm{t}], \mathrm{t}] / / \text { Simplify }
$$

and print the corresponding Output that MATHEMATICA gives in the following space.

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 all of the solutions of the differential equation

$$
\frac{d^{2} y}{d t^{2}}-52 \frac{d y}{d t}+667 y=i d \cdot \sin 5 t
$$

Input:

Output:
(End of Quiz)

