Section 006 of Calculus Lab 2, Quiz of March 4, 2003	Name (clearly printed):
11:00-11:15 a.m.	Student Identification Number:

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] id = 123

Out[1] 123

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

```
DSolve[y''[t] - 5 y'[t] + 6 y[t] == id*Cos[2t], y[t], t] //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

$$\frac{d^2y}{dt^2} - 52\frac{dy}{dt} + 667\,y = id \cdot \sin 5t.$$

Input:

Output:

(End of Quiz)