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 the 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]`   `id = 1.23456789 x 10^8`

You may have fewer digits in the output and it may look like `id = +1.2345 × 10^8`.

Problem 1. Find a numerical approximation for the definite integral of the function

$$f(x) = e^{(-x)}\left(x^5 + \frac{id}{x}\right)$$

over the interval from $x = 13$ to $x = 29$.

Input:

Output:

Problem 2. Find a numerical approximation for the improper integral of the function

$$g(x) = \frac{x^2 + x + id}{(x+1)(x^2+1)^5}$$

over the interval $[1, \infty)$.

Input:

Output:

(End of Quiz)