For this quiz, you are to print the Output that MATHEMATICA gives you for various Input Statements. As the first Input statement, write your Student Identification Number as a decimal without dashes or spaces and set \texttt{id} equal to it. Thus, if your Student Identification Number were 123-45-6789, your first Input and Output would look like

\begin{verbatim}
id = 123456789.
1.23456789 \times 10^8
\end{verbatim}

Problem 1. After each of the following four Input statements, print the Output that \textit{Mathematica} yields.

\begin{verbatim}
f[x_] = x^3 - 9 x^2 + 17 x - (id)^{(1/6)}

sol = NSolve[f'[x] == 0, x]

critPoints = x /. sol

\{f[critPoints], f''[critPoints]\}
\end{verbatim}

Problem 2. After each of the following two Input statements, print the Output that \textit{Mathematica} yields.

\begin{verbatim}
Integrate[(id)^{(1/5)} \cdot x \cdot E^x \cdot Sin[2 x] \cdot Cos[3 x], x]

Integrate[x^{13} \cdot ArcTan[x] + Floor[id], x]
\end{verbatim}