1. Carefully print MATHEMATICA input commands whose evaluation yields a graph of
\[
\frac{x^2}{16} + \frac{y^2}{9} = 1.
\]

2. Carefully print MATHEMATICA Input statements based on Newton’s Method as explained in pages 83–85 of our textbook to numerically approximate the solution of
\[e^{-x} = \arctan x\]
based on \(x = .5\) as the initial guess. (Do not use the preferable \texttt{FindRoot} procedure.)

3. Carefully print MATHEMATICA Input for the expression
\[expr = a^5 + 3a^2b^3 + 5a^3b^2 + b^5\]
and then carefully print MATHEMATICA Input whose evaluation will replace \(a\) in \(expr\) with \(x^2y^3\) and replace \(b\) in \(expr\) with \(x^4y\).

(End of Quiz)