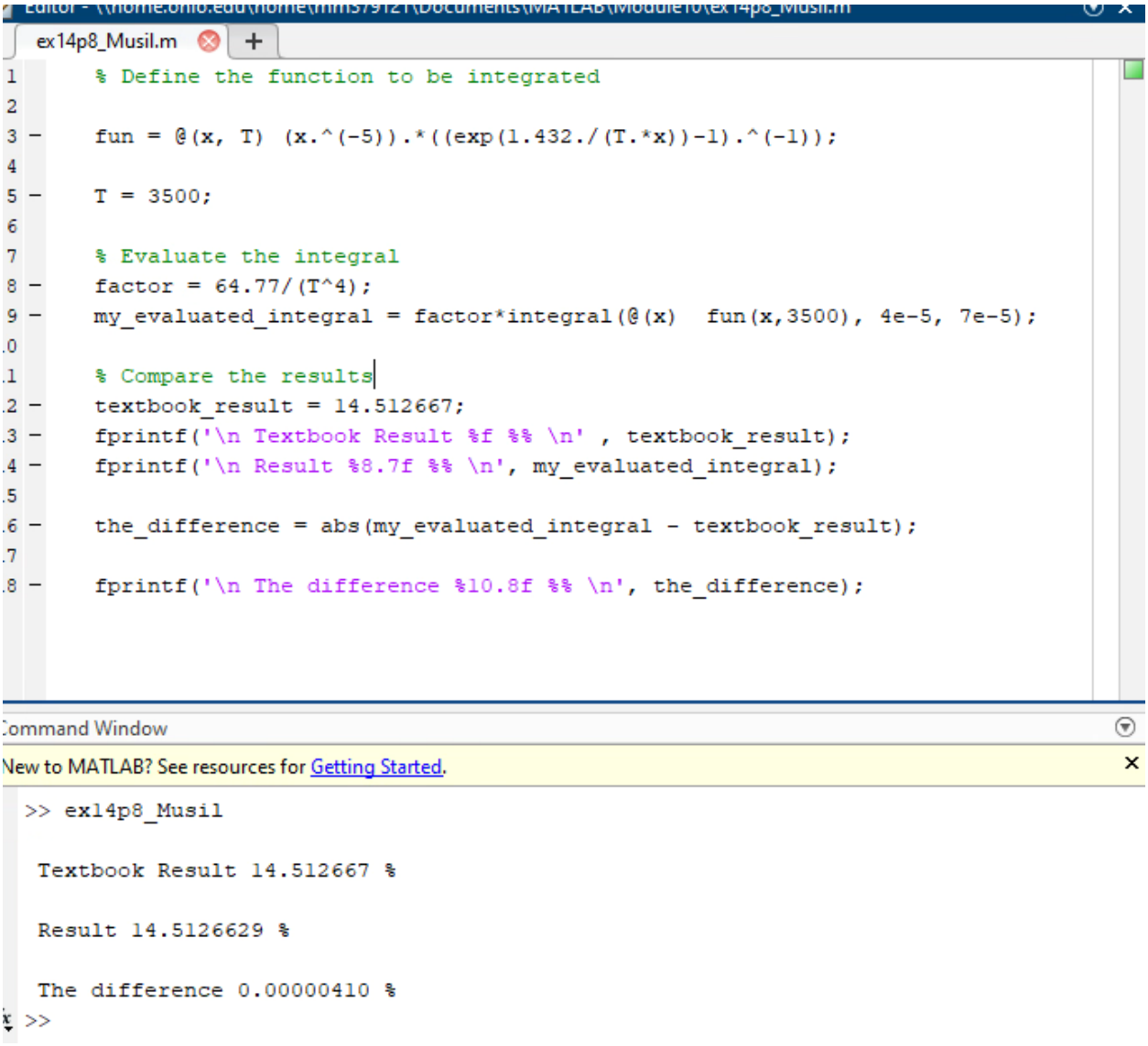
1. Do a variation of exercise 14.8 on page 327-328 of the textbook. Specifically, utilize either the MATLAB® function “quad” or, preferably, the MATLAB® function “integral” instead of Simpson’s rule. Submit your program in an m-file named “ex14p8_LastName.m”. Make sure to specify “format long” to see the difference in the result versus the results with Simpson’s rule described in the exercise 14.8 description.



2. Following the screencast, implement a function m-file named “nonlinear_circuit_LastName.m” that implements the system of two differential equations describing voltages v1 and v2 in the nonlinear circuit example. Use the provided driver file “nonlinear_solver.m” to solve the system of differential equations and plot out the source voltage and voltages v1 and v2.