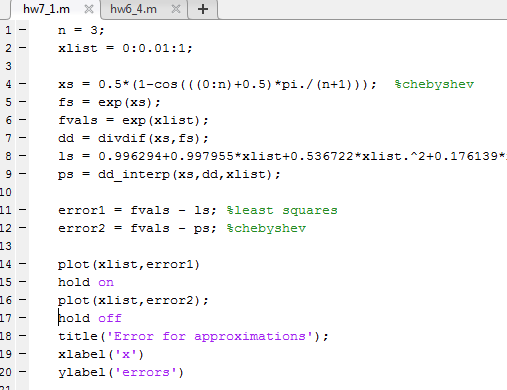
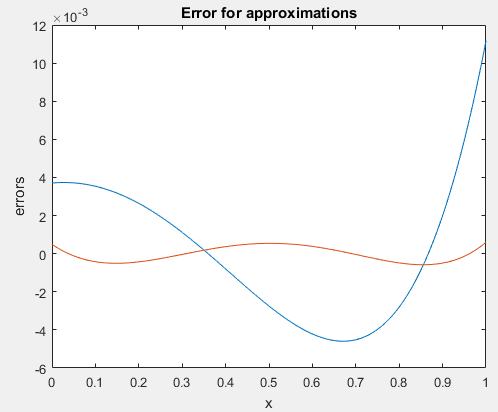
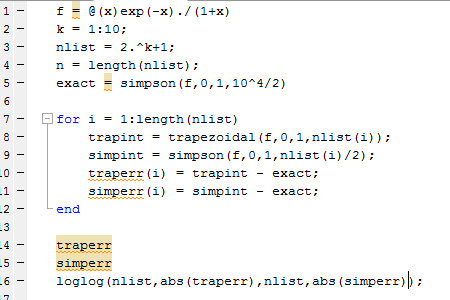
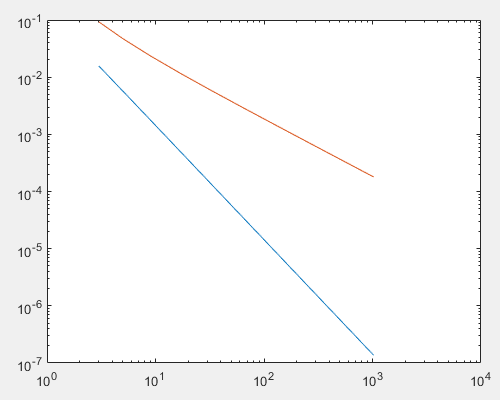
**Problem 1:**





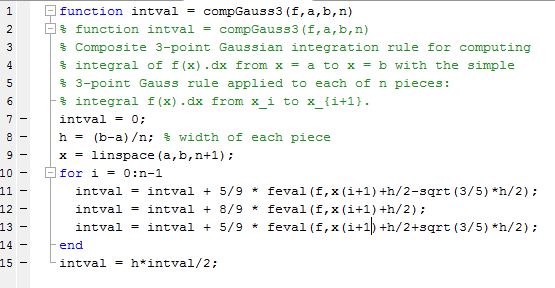
**Problem 2:**

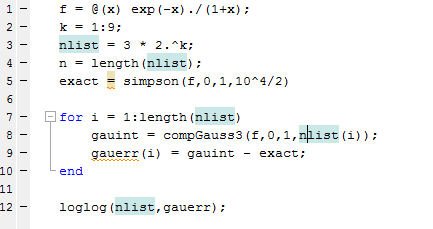




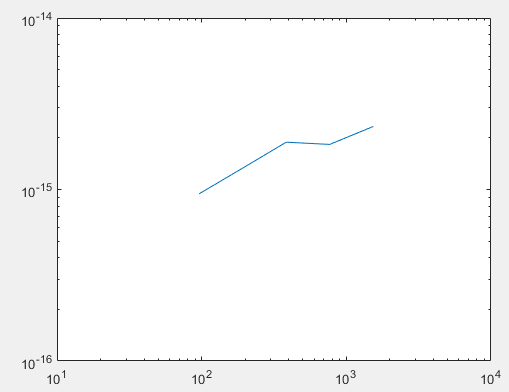
The orange line is the error for Simpon’s rule and the blue line is the error for Trapezoidal rule. The plot confirms the theory.

**Problem 3:**

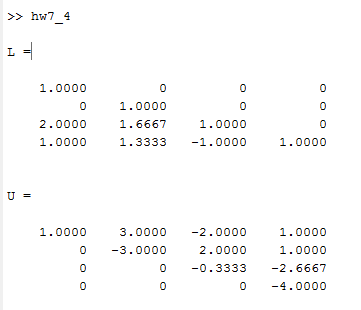
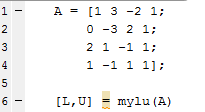


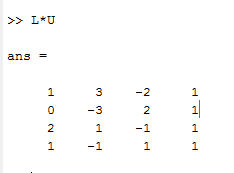


(Not absolute value of error.)



**Problem 4:**





(The Matlab outcomes are just for double-checking. Please see the handwritten version of problem 4.)