1. Apply the midpoint rule with \( n = 3 \) to approximately solve
\[
\int_{0}^{3} \exp\{x + x^2/2\} \, dx.
\]

Using the error bound from class (or, equivalently, from the book), estimate the minimum number of steps, \( n \), such that the error would be no greater that \( 10^{-3} \).

2. Epperson, Section 5.2 Problem: 5. (Note: You should use the corrected trapezoid method as given in class. This is also the last form given in Section 5.2 of the current edition of the textbook – the one without any explicit derivative evaluations.)