

**Worksheet 7**

Write a MATLAB function/script that performs the following tasks.

Approximate:  $\int_0^4 \frac{2x}{x^2 + 2} dx$ .

- (a) Using the composite Trapezoidal rule with  $n = 8$
- (b) Using the composite Simpson's rule with  $n = 8$
- (c) Display the final solution for each method along with the exact solution.

Name your file: `WS7_LastName_FirstInitial()`

Submit your MATLAB code file to Dropbox no later than Saturday (11:59pm), 10/17/2020.