

## Pre-class Questions: Sections 4.4

**Purpose:** These questions give you an easy way to start engaging with the textbook and prepare you for class. Some of the questions are meant to help with self reflection and others help test your understanding of the material.

**Task:** You can answer these questions as you read the section or after you've finished. As this is your first point of contact with the material, you are not expected to get everything correct, but answer to the best of your abilities.

1. In the definition of a *definite integral*, why does it **not** matter how we choose the  $c_i$  as long as they are in the interval  $[x_{i-1}, x_i]$ ?
2. What is signed area? Can you give a real world example where signed area is useful?
3. What questions do you have about definite integrals?