

## Reading 11 (Due Monday 8/25 by 5PM)

Please consider taking the **Student Experience of Teaching Survey (SETS)** which closes on Tuesday 8/26 at 11:59PM.

**Directions:** Read the following sections of the book:

- Section 11.6.1.

and complete the following tasks along the way. If an Activity is not listed, you do not need to complete it (although you are welcome to read it). Turn your write up in via [gradescope](#). You do not need to write the questions down, as long as you clearly indicate the question number.

1. Preview Activity 11.6.1.
2. Activity 11.6.2.

**Basic learning objectives:** These are the tasks you should be able to perform with reasonable fluency **when you arrive at our next class meeting**. Important new vocabulary words are indicated in italics.

1. Parametrize the graph of a function.
2. Parametrize basic surfaces that are NOT the graph of a function, such as: a sphere, a torus, or a cylinder.

**Advanced learning objectives:** In addition to mastering the basic objectives, here are the tasks you should be able to perform **after class, with sufficient practice**:

1. Compute the surface area of a surface using a double integral.
2. Evaluate triple integrals over rectangular prisms and more general closed and bounded regions. (There is no reading associated to this learning objective, we will discuss it in class.)