

Exercises on Integration

The performances are variable on the **techniques of integration**. This indicates that some students are well-prepared and doing well on integration, while others are struggling with integration, especially substitution methods. There is a **special WeBWorK assignment** that will be available until December 9. These exercises are **optional**, but will provide an excellent opportunity to test your skills of integration. Students who have performed well on integration and thoroughly understand these techniques do not need to work these exercises. The others will benefit from the additional practice. As always, you should be able to work these integrations with no more than the aid of a **3x5 notecard**. The primary value of these exercises is not in getting the correct answer, but understanding the techniques of integration and learning how to work these problems **on your own**.

As an incentive for students to work these exercises, the following rules will apply:

1. These **extra-credit** points will be added to **Quizzes 9 and 10**.
2. The **maximum** possible addition is **3 points** to each quiz (up to 6 points total).
3. The **3 points** will be **multiplied** by the **fraction of correct answers** from WeBWorK.
4. The individual quiz scores **cannot exceed 20 points**. (Thus, if you scored 18 on a quiz, at most 2 points will be added to your score.)

As an example, suppose Student A scored 18 and 14 on Quizzes 9 and 10, respectively. Assume this student works 86% of these exercises correctly, so $0.86 \cdot 3 = 2.6$. The new quiz scores would become 20 and 16.6.

The purpose of these exercises is to prepare you for doing well on integration for the rest of the semester. Thus, the sooner you work through the exercises, the greater the benefit to your performance. If you are having difficulty with these exercises, then you should attend office hours to help better prepare you for this course.