Unit 7A Integrals Lesson 4, Practice 1



Practice - 1

Once you feel confident with the definite integral, complete problems 1 and 2. Check your answers by going to the Solutions tab in Moodle.

Instructions: Answer each of the following practice questions on a separate piece of paper. Step by step solutions are provided under the Solutions tab. You will learn the material more thoroughly if you complete the questions before checking the answers.

- 1. Verify $\int_{0}^{2} (2x + 3x^{2}) dx = \int_{0}^{2} 2x dx + \int_{0}^{2} 3x^{2} dx$.
- 2. Determine the following.

$$a. \quad \int_1^3 \left(\frac{1}{(3x-2)^2}\right) dx$$

b.
$$\int_{3}^{4} (2x^2 + 3)^2 dx$$

c.
$$\int_{1}^{2} (5-x)^{\frac{1}{2}} dx$$

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