Unit 7A Integrals Lesson 1, Practice 1



Practice - 1

Once you feel confident with general antiderivatives, 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. Find the antiderivative of each of the following.

a.
$$f(x) = 1$$

b.
$$f(x) = x^{-3}$$

2. Integrate the following.

a.
$$\int \frac{1}{x^4} dx$$

b.
$$\int \sqrt{x} dx$$

c.
$$\int \frac{2}{x+1} dx$$

d.
$$\int e^{-x} dx$$

e.
$$\int \cos 4x \ dx$$

f.
$$\int 5\sin 3x \ dx$$

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