Unit 7A Integrals Lesson 1, Practice 2



Practice - 2

Once you feel confident with families of curves, complete problems 1 to 3. 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. Using various values for the constant C, sketch a family of curves for the general antiderivative of f(x) = 2x + 1.
- 2. Find the equation of the curve passing through the point (0,1) with a derivative function given by $\frac{dy}{dx} = x^3 2x^2 1$.
- 3. The slope of a curve is given by m = 1 3x. Find the equation of the curve passing through the point (2, -2).

ADLC Mathematics 31