

Problem Wk.1.3.5: Polynomial Representations

Part 1: Polynomial algebra

First, let's review algebraic operations on polynomials.

The answers below require you to enter sequences of coefficients for polynomials. Enter the coefficients in the order that they would appear in the Polynomial class.

Enter only numbers separated by spaces; don't use commas or brackets. For example: 2 5 0 -1

1. Enter the sequence of coefficients for the polynomial $3x^3 + 2x - 4$
2. Enter the sequence of coefficients for the polynomial $2x + 7$
3. Enter the sequence of coefficients for the polynomial that is the sum of the two polynomials above $(3x^3 + 2x - 4) + (2x + 7)$
4. Enter the sequence of coefficients for the polynomial that is the product of the two polynomials above $(3x^3 + 2x - 4) * (2x + 7)$
5. Enter the sequence of coefficients for the polynomial that is the following product $(3x^3 + 2x - 4) * (2x)$
6. Enter the sequence of coefficients for the polynomial that is the following product $(3x^3 + 2x - 4) * (7)$
7. Enter the sequence of coefficients for the polynomial that is the sum of the previous two resulting polynomials.

MIT OpenCourseWare
<http://ocw.mit.edu>

6.01SC Introduction to Electrical Engineering and Computer Science
Spring 2011

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.