

## Experiment 2.1

**Objectives** To learn to use MATLAB to (1) generate polynomials, (2) manipulate polynomials, (3) generate transfer functions, (4) manipulate transfer functions, and (5) perform partial-fraction expansions.

**Minimum Required Software Packages** MATLAB and the Control System Toolbox

### Prelab

1. Calculate the following by hand or with a calculator:

- The roots of  $P_1 = x^6 + 7x^5 + 2x^4 + 9x^3 + 10x^2 + 12x + 15$
- The roots of  $P_2 = x^6 + 9x^5 + 8x^4 + 9x^3 + 12x^2 + 15x + 20$
- $P_3 = P_1 + P_2$ ;  $P_4 = P_1 - P_2$ ;  $P_5 = P_1 P_2$

2. Calculate by hand or with a calculator the polynomial

$$P_6 = (x + 7)(x + 8)(x + 3)(x + 5)(x + 9)(x + 10)$$

3. Calculate by hand or with a calculator the following transfer functions:

$$\text{a. } G_1(s) = \frac{20(x + 2)(x + 3)(x + 6)(x + 8)}{s(s + 7)(x + 9)(x + 10)(x + 15)}$$

represented as a numerator polynomial divided by a denominator polynomial.

$$\text{b. } G_2(s) = \frac{s^4 + 17s^3 + 99s^2 + 223s + 140}{s^5 + 32s^4 + 363s^3 + 2092s^2 + 5052s + 4320}$$

expressed as factors in the numerator divided by factors in the denominator, similar to the form of  $G_1(s)$  in Prelab 3a.

$$\text{c. } G_3(s) = G_1(s) + G_2(s); G_4(s) = G_1(s) - G_2(s); G_5(s) = G_1(s)G_2(s)$$

expressed as factors divided by factors and expressed as polynomials divided by polynomials.

4. Calculate by hand or with a calculator the partial-fraction expansion of the following transfer functions:

$$\text{a. } G_6 = \frac{5(s + 2)}{s(s^2 + 8s + 15)}$$

$$\text{b. } G_7 = \frac{5(s + 2)}{s(s^2 + 6s + 9)}$$

$$\text{c. } G_8 = \frac{5(s + 2)}{s(s^2 + 6s + 34)}$$

### Lab

1. Use MATLAB to find  $P_3$ ,  $P_4$ , and  $P_5$  in Prelab 1.

2. Use only one MATLAB command to find  $P_6$  in Prelab 2.

3. Use only two MATLAB commands to find  $G_1(s)$  in Prelab 3a represented as a polynomial divided by a polynomial.

4. Use only two MATLAB commands to find  $G_2(s)$  expressed as factors in the numerator divided by factors in the denominator.

5. Using various combinations of  $G_1(s)$  and  $G_2(s)$ , find  $G_3(s)$ ,  $G_4(s)$ , and  $G_5(s)$ . Various combinations implies mixing and matching  $G_1(s)$  and  $G_2(s)$  expressed as factors and polynomials. For example, in finding  $G_3(s)$ ,  $G_2(s)$  can be expressed in factored form and  $G_1(s)$  can be expressed in polynomial form. Another combination is  $G_1(s)$  and  $G_2(s)$  both expressed as polynomials. Still another combination is  $G_1(s)$  and  $G_2(s)$  both expressed in factored form.

6. Use MATLAB to evaluate the partial fraction expansions shown in Prelab 4.

### Postlab

1. Discuss your findings for Lab 5. What can you conclude?

# Cyber Exploration Laboratory Solution Manual Nise

**vLab Solutions Staff**



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