

# Cyber Exploration Laboratory

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## Experiment 4.1

**Objective** To evaluate the effect of pole and zero location upon the time response of first- and second-order systems.

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

### Prelab

1. Given the transfer function  $G(s) = \frac{a}{s + a}$ , evaluate settling time and rise time for the following values of  $a$ : 1, 2, 3, 4. Also, plot the poles.
2. Given the transfer function  $G(s) = \frac{b}{s^2 + as + b}$ :
  - a. Evaluate percent overshoot, settling time, peak time, and rise time for the following values:  $a = 4$ ,  $b = 25$ . Also, plot the poles.
  - b. Calculate the values of  $a$  and  $b$  so that the imaginary part of the poles remains the same but the real part is increased two times over that of Prelab 2a, and repeat Prelab 2a.
  - c. Calculate the values of  $a$  and  $b$  so that the imaginary part of the poles remains the same but the real part is decreased by one half over that of Prelab 2a, and repeat Prelab 2a.

# Cyber Exploration Laboratory Experiments Solution

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