

# MATH 226

## Differential Equations

### Assignment 13

Due Monday, April 11

**Read** Section 6.3: “Homogeneous Linear Systems with Constant Coefficients” of Chapter 6:  
*Systems of First Order Linear Equations*

### Problems

*Maple* or MATLAB will be useful for parts of the starred problems.

#### 6.1 Definitions and Examples

**Practice Problems: 2, 3, 4,5**

**Feedback Problems: 2, 5**

#### 6.2 Basic Theory of First Order Linear Systems

**Practice Problems: 1, 3, 5, 7, 9, 11, 15**

**Feedback Problems: 5, 9, 15**

