Week 6

Monday February 27 : **Exam #1**

   Exam #1. Today is the first in-class exam.

   Reading:

   Williamson & Trotter, Chapter 1, Chapter 2, Chapter 4, Chapter 5 (Excluding
   Section 5.5 on Newton's Method)

Wednesday March 1 *Class 16*:

   Multivariable Newton's Method. We'll learn one very important application of
   the Jacobian matrix: the solution of *nonlinear* systems of equations.

   Reading:

   Williamson & Trotter, (Section 5.5)

   Homework #15: (due in *Class 17*)

   Williamson & Trotter, page 250: **1,4**
   QUIZ #5

Friday March 3 *Class 17*:

   Gradient Fields and Vector Fields. We'll introduce the concept of vector fields
   through the examination of gradient fields.

   Reading:

   Williamson & Trotter, (Section 6.1)

   Homework # 17:

   Williamson & Trotter, page 257: **5, 6, 8,** 9, 17, 20, 26, 27 page 261: 4, **8**, **Extra
   Credit page 259: 38**

Quiz #5