Week 5

Wednesday February 22 *Class 13*:

Differentiability. We shall introduce the vector derivative of a scalar function, the gradient function $\vec{\nabla} f$.

Reading:

Williamson & Trotter, (Section 5.2)

Homework #13:

Williamson & Trotter, page 232: **6, 7**, 8, 9, 12, **16, 19, 20**;
Extra Credit page 232: # 21

QUIZ #4 DUE

Friday February 24 *Class 14*:

The Jacobian Matrix. Introduction of the vector derivative of a vector function.

Reading:

Williamson & Trotter, (Section 5.4)

Homework #14: (due in *Class 16*)

Williamson & Trotter, page 236: # 1, 4, **9**; page 243: 3, 4, 8, 17, **18, 23**
Extra Credit page 244: 27, 28

Sunday February 26 : **EXAM REVIEW SESSION 6:30-8:30pm**

Review Session for Exam 1. We'll try to brainstorm our way through a concept map of the topics we have covered so far and answer any questions related to the (practice) exam.

Reading:

Williamson & Trotter, (Chapter 1, 2, 4, 5.1-5.4)