MATH 20C Lecture 12 - Tuesday, November 18, 2014

Review

- Functions of several variables, contour plots.

- Partial derivatives, gradient; approximation formulas, tangent planes, directional derivatives.

- higher order partial derivatives

- chain rule, change of variables, implicit differentiation

- Min/max problems: critical points, second derivative test, checking boundary

- Min/max for non-independent variables: Lagrange multipliers

Went through problems 9, 11, 12 from the suggested practice problems in the study guide.

MATH 20C Thursday, November 20, 2014: second midterm