

MATH 310 Exam III (14.4 - 15.2) Review

1. Know how to find the equation of the tangent plane at a point and the linearization of a function at a point.
2. Know the chain rule
3. Know how to find the gradient and directional derivatives
4. Know how to find the extreme values of functions over a region.
5. Know the how to use lagrange multipliers to find extreme values of a function subject to a constraint.
6. Know how to find the double integral over a rectangle.

Example exercises: Quiz & Homework questions; Ch.14 Review, #25-63; Ch. 15 Revis, #1-6