

MATHEMATICS TEACHING SEMINAR

Guest Speaker: Yuyan He

University of Notre Dame

Date: Tuesday, February 20, 2024

Time: 5:00 PM

Location: 125 Hayes-Healy Bldg

Zoom URL: NA



Lecture Title:

Mock Lecture: Change of Variables in two variables

Abstract

Change of variables allows us to simplify integrating functions in several variables, either through simplifying the form of the integrand, or the shape of the domain. I will introduce the change of variables formula, and give geometric motivation for the role of the Jacobian through examples. At the end I will explain the formula for integrating in polar coordinates as change of variables.