

A.Y. 2016/2017

Preliminary course of Mathematics

Lecturer: Antonio Veredice

Contents:

- Linear Algebra: Vectors and Operations, Vector Spaces and Basis, Matrix Algebra, Determinants, Rank, Linear Independence, Linear Systems.
- Calculus of one variable: Topology in \mathbb{R} , Domains, Limits, Derivatives, Graph of a Function.
- Series and integrals: Summation notation, Geometric, Harmonic, Telescopic Series and other examples, Fundamentals of Integration, Integration by Parts and by Substitution, Integration of a Ratio.

Suggested reference reading material: "Mathematics for Economists" Simon & Blume.
NORTON