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Course Name

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Abstract

These notes are intended as a resource for myself; past, present, or future students of this course, and anyone interested in the material. The goal is to provide an end-to-end resource that covers all material discussed in the course displayed in an organized manner. If you spot any errors or would like to contribute, please contact me directly.

1 Euclidean *n*-space

In this section, we will review the algebra of vectors and the structure of the Euclidean n-space, \mathbb{R}^n .

Course overview

- Sequences, limits, continuity in \mathbb{R}^n
- Sets and topology of Rn (open, closed, compact, etc.)
- Derivatives (requires a good grasp of linear algebra)
- Multivariable integrals
- Connections between derivatives and integrals