Functional Analysis

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1 Metric Spaces

1.1 Metric Space

(P18)

Definition 1.1.1 (Metric space, metric)

Example 1.1.2 (Real line R)

1.2 Further Examples of Metric Spaces

(P24)

Example 1.2.1 (Sequence space s)

1.3 Open Set, Closed Set, Neighborhood

Definition 1.3.1 (Open Set) Given a point $x_0 \in X$ and a real number $r \geq .$

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