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examples of metric spaces

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The aim of this entry is to list metric spaces that have a standard metric.

Distance on set

- Euclidean metric on \mathbb{R}^n and on open subsets of \mathbb{R}^n ,
- Normed vector spaces,
- Hausdorff metric on sets
- Valuated field, i.e. a field and its valuation

Function spaces

- L^p <http://planetmath.org/LpSpacefunctions>
- $\mathcal{O}(G)$; <http://planetmath.org/SpaceOfAnalyticFunctions> holomorphic functions
- \mathcal{S} ; the <http://planetmath.org/SpaceOfRapidlyDecreasingFunctions> Schwartz space of rapidly decreasing functions