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## Heine-Cantor theorem

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Author n3o (216) Entry type Theorem Classification msc 46A99 Let X,Y be uniform spaces, and  $f:X\to Y$  a continuous function. If X is compact, then f is uniformly continuous.

For instance, if  $f:[a,b]\to\mathbb{R}$  is a continuous function, then it is uniformly continuous.