

Advanced Calculus (I)

Let $A \subseteq \mathbb{R}$ and $f : A \rightarrow \mathbb{R}$.

f is Hölder continuous with exponents α if $\exists K > 0$ and $0 < \alpha \leq 1$ such that $|f(x) - f(y)| \leq K |x - y|^\alpha \ \forall x, y \in A$.