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In mathematics, a Sobolev space is a vector space of functions equipped with a norm that is a combination of L^p -norms of the function together with its derivatives up to a given order. The

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derivatives are understood in a suitable weak sense to make the space complete, i.e. a Banach space. Intuitively, a Sobolev space is a space of functions possessing sufficiently many derivatives for some application domain, such as partial differential equations, and equipped with a norm that measures both the

Sobolev space - Wikipedia

It is well-known that a function f is weakly differentiable at b -a.e. x if and only if it can be approximated with Lipschitz functions in Lusin's sense. Namely, for any $\epsilon > 0$ there exists a Lipschitz function $g : \mathbb{R} \rightarrow \mathbb{R}$ such that $\int_{b-d}^b |f - g| dx < \epsilon$.

On the Sobolev space of functions with derivative of ...

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Weakly Differentiable Functions | SpringerLink

In mathematics, a weak derivative is a generalization of the concept of the derivative of a function (strong derivative) for functions not assumed differentiable, but only integrable, i.e., to lie in the L^p space. $L^1([a, b]) \subset \mathcal{D}'([a, b])$. See distributions for a more general definition.

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Weak derivative - Wikipedia

Let f be a function in some Sobolev space which is infinite at 0 (for example f might be $|x|^{-1/3}$ in $H^1(\cdot)$ for some open ball in \mathbb{R}^3), let q_n be an enumeration of the rational points of \cdot , and let $f_h(x) = f(x - h)$. Then we can define $g = \sum_n 2^{-n} f_h(q_n)$. This g is unbounded on any open set, but its norm is no more than double the norm of f , so in particular it is still weakly differentiable.

analysis - Weakly differentiable but classically nowhere ...

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