Differential form - Wikipedia

Let \( M \) be a smooth manifold. A smooth differential form of degree \( k \) is a smooth section of the \( k \)-th exterior power of the cotangent bundle of \( M \). The set of all differential forms on \( M \) is a vector space, often denoted \( \Omega(M) \).

Riemannian geometry - Wikipedia

Riemannian geometry is the branch of differential geometry that studies Riemannian manifolds, smooth manifolds with a Riemannian metric, i.e., with an invariant inner product on the tangent spaces at each point that varies smoothly from point to point.

The definition of a differential form may be restated as follows. At any point \( p \in M \), a \( k \)-form \( \beta \) defines an element

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