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In mathematics, the tensor algebra of a vector space  $V$ , denoted  $T$  or  $T^\bullet$ , is the algebra of tensors on  $V$  with multiplication being the tensor product. It is the free algebra on  $V$ , in the sense of being left adjoint to the forgetful functor from algebras to vector spaces: it is the "most general" algebra containing  $V$ , in

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the sense of the corresponding universal property. The tensor algebra is important because many other algebras arise as quotient algebras of  $T$ . These include the exterior ...

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There are simple and straightforward embeddings of the underlying vector space  $V$  into its corresponding tensor algebra  $T(V)$  and any of its corresponding Clifford algebras  $C\ell_q(V)$  (where  $q$  denotes the quadratic form defining the Clifford algebra). This fact is what makes both tensor analysis and geometric (Clifford) algebra compatible with ordinary vector algebra or calculus.

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