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In mathematics, the tensor algebra of a vector space *V*, denoted *T* or *T* • , 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 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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