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Differential geometry is a mathematical discipline that uses the techniques of differential calculus, integral calculus, linear algebra and multilinear algebra to study problems in geometry. The theory of plane and space curves and surfaces in the three-dimensional Euclidean

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One approach that is common in differential geometry is to define tensors relative to a fixed (finite-dimensional) vector space V , which is usually taken to be a particular vector space of some geometrical significance like the tangent space to a manifold. In this approach, a

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type (p, q) tensor T is defined as a multilinear map,

Course Notes Tensor Calculus and Differential Geometry

7 Notice(s): 2.1.2 On the one hand hold $e_i = A_i^0 e_0 = A_i^0 e_j$
and on the other hand $e_i = e_j$,
from what follows that $A_i^0 e_j = e_j$.

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On the same manner it is deduced that $A_{ij} = \delta_{ij}$. The δ_{ij} and δ^{ij} are the Kronecker delta's. Construct with them the

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