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## covector

Canonical name Covector

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Owner bwebste (988) Last modified by bwebste (988)

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Author bwebste (988) Entry type Definition Classification msc 15-00 If V is a vector space over a field k, then a covector is a linear map  $\alpha:V\to k$ , that is, and element of the dual space to V. Thus, for example, a covector field on a differentiable manifold is a synonym for a http://planetmath.org/DifferentialForms1 form.