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Differential Calculus Rules for Vector Functions 192; 3-13 Equation of Tangent and Normal ... † 5-10

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A differential form is a linear transformation from the vector fields to the reals given by  $\omega = \sum_{i=1}^n a_i dx_i$ .

(1.2) We identify a vector field  $v$  with the corresponding directional derivative  $v = \sum_{i=1}^n v_i$

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~~Vector fields and differential forms~~

Vector calculus can be defined on other 3-dimensional real vector spaces if they have an inner product (or more generally a symmetric

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defined as a linear combination of the others.

Remark: if no vector can be written this way, then the vectors are said to be linearly independent.

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3 Linear independence, spanning and bases of vector spaces 3.1 Linear dependence and independence De nition. Let  $V$  be a vector space over the eld  $K$ . The vectors  $v_1; v_2; \dots; v_n$  are said to be linearly dependent if there exist scalars  $\alpha_1; \alpha_2; \dots; \alpha_n \in K$ , not all zero, such that  $\alpha_1 v_1 + \alpha_2 v_2 + \dots + \alpha_n v_n = 0$ .

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