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b af (x dx. Then  $\mu(c_1f_1+2f_2) = c_1\mu(f_1) + c_2\mu(f_2)$  for all functions  $f_1, f_2 \in V$  and all scalars  $c_1, c_2$ , so  $\mu$  is a linear functional on  $V$ . The collection of all covectors on  $V$  is denoted by  $V^*$  and called the dual of  $V$ . The dual is a vector space in its own right: if  $\mu_1$  and  $\mu_2$  are in  $V^*$  we define  $\mu_1 + \mu_2$ .

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