Hamel function

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A function $h : \mathbb{R}^n \to \mathbb{R}$ is said to be a *Hamel function* if h, considered as a subset $\{(x, h(x)\} \subset \mathbb{R}^{n+1}$, is a Hamel basis for $\mathbb{R}^{n+1}$ over $\mathbb{Q}$. We denote the set of n-dimensional Hamel function by $HF(\mathbb{R}^n)$.

References

- Poltka, K. *On Functions Whose Graph is a Hamel Basis.* Unpublised Ph.D. work. Online at `http://academic.scranton.edu/faculty/PLOTKAK2/publications/ham_0911.pdf`