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Some examples of real division algebras. (English summary)

An. Ştiinţ. Univ. Ovidius Constanţa Ser. Mat. **11** (2003), no. 2, 69–74.

Starting from an algebra A over a field K of characteristic different from two, a nondegenerate symmetric bilinear form (x, y) over A , and two elements $\gamma \in K$ and $g \in A$ such that $\gamma(g, g) \neq 1$, S. Okubo and H. C. Myung [*J. Algebra* **67** (1980), no. 2, 479–490; [MR0602075 \(83d:17005\)](#)] constructed a new class of non-unital division algebras, $A(\gamma, g)$. In the paper under review, conditions are given to characterize when two of these algebras $A(\gamma, g)$ and $A(\gamma', g')$ are isomorphic.

Reviewed by *Miguel A. Gómez Lozano*

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