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The geometric algebra (GA) of a vector space is an algebra over a field, noted for its multiplication operation called the geometric product on a space of elements called multivectors, which is a superset of both the scalars and the vector space. Mathematically, a geometric algebra may be defined as the Clifford algebra of a vector space with a quadratic form.

## **Geometric algebra - Wikipedia**

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In physics, the algebra of physical space (APS) is the use of the Clifford or geometric algebra  $Cl_{3,0}(\mathbb{R})$  of the three-dimensional Euclidean space as a model for (3+1)-dimensional spacetime, representing a point in spacetime via a paravector (3-dimensional vector plus a 1-dimensional scalar).. The Clifford algebra  $Cl_{3,0}(\mathbb{R})$  has a faithful representation, generated by Pauli matrices, on the ...

## **Algebra of physical space - Wikipedia**

Other writings: Darij Grinberg, On a double Sylvester determinant, unfinished draft. PDF file. Sourcecode of the paper. We prove the vanishing of a determinant whose entries themselves are products of minors of two matrices.

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