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**Contributions in geometry. (Contributions en géométrie.)** (French) Zbl 1017.51003

Rabat: École Normale Supérieure. 54 p. (2001).

This work contains five notes. 1. Starting from an axiomatic definition of the equipolence, some considerations about the notions of vector and affine space are given. 2. Affine transformations and some forms of the fundamental theorem in affine geometry are studied. 3. Some properties of similitudes of a Euclidean space are obtained. 4. The maximal subgroup of the group of positive isometries of an affine Euclidean space is studied. 5. The applications preserving a given oriented angle in a Euclidean plane are analyzed.

Reviewer: [Gheorghe Pitig \(Brasov\)](#)

**MSC:**

- [51A05](#) General theory of linear incidence geometry and projective geometries
- [51N10](#) Affine analytic geometry
- [51N20](#) Euclidean analytic geometry
- [51-02](#) Research exposition (monographs, survey articles) pertaining to geometry

**Keywords:**

[affine space](#); [Euclidean space](#); [vector space](#); [isometry group](#); [similitude](#); [affine transformations](#); [fundamental theorem in affine geometry](#)