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structure.Under the projective transformations, the incidence structure and the relation of projective harmonic conjugates are preserved. A projective range is the one-dimensional foundation.Projective geometry - WikipediaKlein's Erlangen program describes geometry as the study of properties invariant under a group of transformations. Affine and projective geometries consider properties such as collinearity of points,

and the typical group is the full matrix group. Metric geometries, such as Euclidean geometry and hyperbolic geometry (the non-Euclidean geometry of Gauss, Lobachevsky and Bolyai) include the property of distance between two points, and the typical group is the group of rigid motions (isometries ...MA243 Geometry - University of WarwickIn other words: To each line  $l$  of Euclidean geometry, associate some other object  $f(l)$ , in such a way that  $f(l) = f(l')$  if and

only if  $l$  and  $l'$  are parallel. [There are lots of ways to do this. For example, you could let  $f(l)$  be the slope of  $l$  (a real number, or the symbol "infinity" if  $l$  is vertical). Question Corner - Understanding Projective Geometry Projective Geometry might be viewed as the geometry of perspective. Two observers of a painting - one looking obliquely, one straight on - will not agree on angles and distances but will both see lines as lines and will agree on whether they meet. So projective

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Quasi-projective varieties, and morphisms between them. The Zariski topology has a basis of affine open subsets. Rings of regular functions on open subsets and points of quasi-projective varieties. The ring of regular functions on an affine variety is the coordinate ring.

Localisation and relationship with rings of regular functions.

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In other words: To each line  $l$  of Euclidean

geometry, associate some other object  $f(l)$ , in such a way that  $f(l) = f(l')$  if and only if  $l$  and  $l'$  are parallel. [There are lots of ways to do this. For example, you could let  $f(l)$  be the slope of  $l$  (a real number, or the symbol "infinity" if  $l$  is vertical).

### **Affine and Projective Geometry: Bennett, M. K ...**

In Euclidean geometry, constructions are made with ruler and compass. Projective geometry is simpler: its constructions require only a ruler. In projective geometry one

never measures anything, instead, one relates one set of points to another by a projectivity. The first two chapters of this book introduce the important concepts of the subject and provide the logical foundations.

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study of properties invariant under a group of transformations. Affine and projective geometries consider properties such as collinearity of points, and the typical group is the full matrix group. Metric geometries, such as Euclidean geometry and hyperbolic geometry (the non-Euclidean

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