Brief Article

The Author

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We will have a set of points and a set of lines. We also have a relation $p \in L$, some points belong to some lines

Definition 1 *Two lines are parallel if they have no points in common.*

Axiom 1 *Any two points determine a line. that is if* $p1 \neq p2$ *then there exists a unique line* L *so that* $p_i \in L$.

Axiom 2 *A line has exactly two points.*

Axiom 3 *for any point* p *and line* L *with* $p \notin L$ *there is exactly one line through* p *that is parallel to* L.

Axiom 4 *There are at least three points*

Lemma 1 *There exist at least 4 points.*

Lemma 2 *ether exist at least six lines.*

Lemma 3 *There exist at most 4 points.*