

THE NONEXISTENCE OF PLANES OF ORDER SIX

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MA08C006
2010

This dissertation studies and analyzes the proof given by Chowla-Ryser the nonexistence of planes of order six. The proof this is highly dependent on the notion of affine plane and counting arguments.

This dissertation has four chapters. The first chapter introduces the notion of affine planes through four axioms. This is also illustrated by an example. Counting arguments is thoroughly described for it is used in the proof to show that planes of order six do not exist. The third chapter proves the nonexistence of planes of order six. The fourth chapter gives the conclusions based on this study.