

Analysis of Students' Deductive Thinking Skill in Learning Geometry

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ABSTRACT

Geometry is one of main parts of mathematics in which is suitable to develop deductive thinking skill. Mathematical proof is a fundamental concept in university mathematics and an important process standard in teaching and learning mathematics. Thus, it is essential to understand students' characteristics in deductive thinking especially in proving in geometry. The purpose of this study is to describe students' deductive thinking skill in learning geometry.

This present study is a qualitative research with ex post facto approach in order to see how the characteristics of students' deductive thinking ability related to proving geometry and the relations amongst the level of deductive thinking skill according to students' gender. The subject of this study is students of Mathematics department and Mathematics Education department who enroll geometry course.

Through this study, it is expected that the characteristics of students' deductive thinking skill in geometry can be described. This study is in the line with TKT 1 to yield fundamental theory of students' skill characteristics in deductive thinking which can be used as a consideration to design better learning. The output of this study is to publish the article in indexing journal. This study will be smooth sailing and achieve the target since there is a commitment of researchers and availability of affordable facilities and infrastructures.

Kata Kunci: *deductive thinking, geometry, university students*