

## ABSTRAK

**HENRA SAPUTRA TANJUNG. Meningkatkan Kemampuan Pemahaman dan Komunikasi Matematis Siswa SMA Negeri 6 Padangsidimpuan Melalui Model Pembelajaran Kooperatif Tipe Think-Pair-Share (TPS) Berbantuan Autograph.** Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2015.

Penelitian ini bertitik tolak dari rendahnya kemampuan pemahaman dan kemampuan komunikasi matematik siswa yang disebabkan oleh model pembelajaran yang digunakan guru. Penelitian bertujuan untuk mengetahui: (1) seberapa besar peningkatan kemampuan pemahaman dan komunikasi matematik siswa setelah diajaran dengan pembelajaran Kooperatif Tipe *Think-Pair-Share* (TPS) berbantuan Autograph; (2) Respon siswa terhadap pembelajaran kooperatif tipe *Think-Pair-Share* (TPS) berbantuan Autograph. Penelitian ini merupakan penelitian tindakan kelas. Subjek dalam penelitian ini adalah siswa kelas X SMA Negeri 6 Padangsidimpuan yang berjumlah 40 orang. Instrumen yang digunakan terdiri dari: tes kemampuan pemahaman, tes kemampuan komunikasi dan respon siswa terhadap pembelajaran. Berdasarkan hasil penelitian, analisis data pada siklus I adalah: (1) rata-rata skor kemampuan pemahaman matematik siswa adalah 2,20 dan rata-rata skor kemampuan komunikasi matematik siswa adalah 2,00; (2) siswa yang memiliki pemahaman matematik sebanyak 20 orang (50 %) dan yang memiliki kemampuan komunikasi matematik sebanyak 22 orang (52,5%), (3) rata-rata skor hasil observasi kegiatan guru dan siswa berada pada kategori baik, Hasil analisis data pada siklus II adalah: (1) rata-rata skor kemampuan pemahaman matematik siswa adalah 3,00 dan rata-rata skor kemampuan komunikasi matematik adalah 2,89, (2) siswa yang memiliki pemahaman matematik sebanyak 34 siswa (85 %) dan siswa yang mampu berkomunikasi matematik sebanyak 36 siswa (90 %), (3) rata-rata skor hasil observasi kegiatan guru dan siswa berada pada kategori sangat baik, (4) respon siswa terhadap pembelajaran adalah baik. Dari hasil penelitian disimpulkan bahwa model pembelajaran Kooperatif Tipe *Think-Pair-Share* (TPS) berbantuan Autograph dapat meningkatkan kemampuan pemahaman dan kemampuan komunikasi matematik siswa, dan proses pembelajaran yang dilakukan berlangsung baik. Berdasarkan kesimpulan ini maka diharapkan temuan penelitian ini dapat dijadikan referensi bagi peningkatan kemampuan pemahaman dan kemampuan komunikasi matematik siswa.

*Kata kunci: Kemampuan Pemahaman, Kemampuan Komunikasi Matematis, Model Pembelajaran Kooperatif Tipe Think-Pair-Share (TPS), Autograph*

## ABSTRACT

**HENRA SAPUTRA TANJUNG. Improving Mathematical Understanding and Communication Skills of Students SMA Negeri 6 Padangsidimpuan Through Think-Pair-Share (TPS) Type of Cooperative Learning Model Assisting by Autograph.** A Thesis. Medan: Post Graduate Program, State University Of Medan, 2015.

This study starts from the low of mathematical understanding and communication skills of students that caused by the learning model used by teachers. The research aims to determine: (1) how much the gain of mathematical understanding and communication skills of students after taught by Think-Pair-Share (TPS) Type of Cooperative learning Model Assisting by Autograph; (2) students response to Think-Pair-Share (TPS) type of cooperative learning assissting by Autograph.

This research is a classroom action research. The Subjects in this study were students of class X SMA 6 Padangsidimpuan which numbered 40 students. The instrument of research were understanding skills test, communication skills test and students' response to learning. Based on the research results, analysis of data in the first cycle are: (1) the average score of students' mathematical understanding ability was 2.20 and the average score of students mathematical communication was 2.00; (2) students who have mathematical understanding skills were 20 people (50%) and who have a mathematical communication skills were 22 people (52.5%); (3) the average score of teacher and students activities observation were in the good category. The results of data analysis in the second cycle were: (1) the average score of mathematical understanding skills was 3.00 and the average score of mathematical communication skills was 2.89; (2) students who have mathematical understanding skills were 34 students (85%) and students who have mathematical communicate were 36 students (90%); (3) the average score of teacher and students activities observation were in the very good category; (4) students response to learning was good. From research result can be concluded that Think-Pair-Share (TPS) type of cooperative learning model assissting by Autograph can improve mathematical understanding and communication skills of students, and the learning process conducted well done. Based on this conclusion then can be expected that the findings of this study can be used as a reference for improving mathematical understanding and communication skills of students.

*Kata kunci: Understanding Skills, Mathematical Communication, Think-Pair-Share (TPS) Type of Cooperative Learning Model, Autograph*