

## ABSTRAK

**MUTIARASANI HASIBUAN. Peningkatan Kemampuan Komunikasi dan Sikap Terhadap Matematika Melalui Model Pembelajaran Kooperatif Tipe *Think-Talk-Write* pada Siswa SMA.** Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2013.

Penelitian ini adalah quasi eksperimen (eksperimen semu). Tujuannya untuk: (1) Menyelidiki peningkatan kemampuan komunikasi matematik siswa pada pembelajaran kooperatif tipe *think-talk-write*, (2) Melihat sikap siswa terhadap matematika yang memperoleh pembelajaran kooperatif tipe *think-talk-write*, (3) Menyelidiki interaksi antara model pembelajaran dan kemampuan awal siswa terhadap kemampuan komunikasi matematik siswa, dan (4) Melihat proses penyelesaian jawaban yang dibuat siswa dalam menyelesaikan masalah terkait dengan kemampuan komunikasi matematik siswa pada pembelajaran kooperatif tipe *think-talk-write* dan pembelajaran secara konvensional. Instrumen yang digunakan dalam penelitian ini adalah: (1) Tes kemampuan komunikasi matematik, berbentuk uraian (2) Skala sikap siswa . Pokok bahasan yang diajarkan adalah trigonometri. Populasi dalam penelitian ini adalah seluruh siswa SMA Swasta Budisatrya Medan, sampel berjumlah 70 orang siswa. Data dianalisis dengan uji-t dan ANAVA dua jalur. Dari hasil penelitian terdapat peningkatan yang signifikan kemampuan komunikasi matematik siswa melalui pembelajaran kooperatif tipe *think-talk-write*.

**Kata Kunci : *Think-Talk-Write* (TTW), Komunikasi Matematik dan Sikap Siswa.**

## ABSTRACT

**MUTIARASANI HASIBUAN. Increased communication skills and attitude towards Cooperative Learning Model Through Mathematical Types Think-Talk-Write in high school students.** Thesis. Medan: Medan State University graduate programs, 2013.

This research was quasi experiment (experiment of the artificial). Its purpose is to: (1) investigate the improvement of mathematical communication ability students on cooperative learning types think-talk-write, (2) see the attitude of the students towards cooperative learning gain mathematical types think-talk-write, (3) Investigating the interactions between models of learning and the ability of students to mathematical communication abilities of students, and (4) the process of settlement of the answers made to the student in resolving problems related to mathematical communication skills of students in cooperative learning types think-talk-write and learning conventionally. The instruments used in this study are: (1) mathematical communication skills Test, shaped blurb (2) student attitude Scale. The subject is taught trigonometry. The population in this research is the Private HIGH SCHOOL students Budisatrya terrain, a sample of 70 students. Data were analyzed by t-test and ANAVA two lines. From the results of the research there is a significant increase of mathematical communication ability students through cooperative learning types think-talk-write.

**Keywords: Think-Talk-Write (TTW), Mathematical Communication and attitude of the students.**