



ABSTRAK

ESMI POHAN, 071188830011. Peningkatan Kemampuan Penalaran dan Disposisi Matematis Siswa SMA Melalui Pendekatan Pembelajaran *Discovery*. Tesis. Medan: Program Studi Pendidikan Matematika. Pasca Sarjana Universitas Negeri Medan, 2012.

Penelitian ini dilakukan untuk memperoleh bukti empirik tentang peningkatan kemampuan penalaran dan disposisi matematis siswa melalui pendekatan pembelajaran *discovery* untuk siswa SMA. Populasi penelitian ini adalah siswa SMA kelas X di lingkungan Dinas Pendidikan Kabupaten Asahan dengan sampel siswa SMA kelas X berdasarkan jenjang akreditasi sekolah (amat baik, baik dan cukup). Jenis Penelitian ini adalah eksperimen. Untuk mengetahui peningkatan kemampuan penalaran dan disposisi matematis siswa digunakan tes instrument. Analisis data penelitian ini menggunakan Anava dua jalur (ANOVA). Hasil penelitian diperoleh: (1) Peningkatan kemampuan penalaran dan disposisi matematis siswa dengan menggunakan pendekatan pembelajaran *discovery* lebih baik daripada siswa yang menggunakan pembelajaran biasa. (2) Peningkatan kemampuan penalaran dan disposisi matematis siswa dengan menggunakan pendekatan pembelajaran *discovery* lebih baik daripada siswa yang menggunakan pembelajaran biasa ditinjau dari jenjang akreditasi sekolah (amat baik, baik dan cukup). (3) Tidak ada interaksi antara faktor pembelajaran dan faktor akreditasi sekolah terhadap peningkatan kemampuan penalaran dan disposisi matematis siswa.



ABSTRACT

Esmi Pohan, 071188830011. The Improvement of the Senior High School Students' Reasoning Ability and Mathematical Disposition through Discovery Approach. Thesis. Medan: Mathematical Education Study Program. Postgraduate School. State University of Medan. 2012.

This research is carried out to obtain the empirical evidence concerning the improvement of the students' reasoning ability and mathematical disposition through discovery approach for Senior High School students. The population of this research is Senior High School students, with the sample is Senior High School students grade X based on the accreditation level (Excellent, Good, Average) in Education Department of Asahan Regency. This research is experimental. The objective of this research is to find out the improvement of the students' reasoning ability and mathematical disposition which is used instrument test. The data analysis used in this research is two ways anova. The research result obtained as follows: (1) The improvement of the students' reasoning ability and mathematical disposition is better by using discovery approach than by using conventional learning. (2) The improvement of the students' reasoning ability and mathematical disposition is better by using discovery than by using conventional learning based on the school accreditation level (excellent, good, average). (3) There is no interaction between the learning factor and the school accreditation factor to the improvement of the students' reasoning ability and mathematical disposition.