

ABSTRAK

Iswandi (2013). Analisis Kemampuan Komunikasi Matematika dan Aktivitas Belajar Siswa Melalui Pendekatan Pembelajaran Kontekstual di SMA Negeri 1 Percut Sei Tuan. Program Studi Pendidikan Matematika Pascasarjana Universitas Negeri Medan

Kata Kunci: Kemampuan Komunikasi Matematika, Aktivitas Belajar, Pembelajaran Kontekstual,

Penelitian ini merupakan studi eksperimen di SMA Negeri 1 Percut Sei Tuan pada kelas XI IPA dengan mengambil sampel 2 kelas secara acak. Instrumen dalam penelitian ini adalah : (1) tes kemampuan komunikasi matematika, (2) Lembar Aktivitas Siswa dan (3) lembar observasi aktivitas siswa dalam pembelajaran. Untuk melihat perbedaan peningkatan kemampuan komunikasi matematika siswa antara siswa yang mendapat pembelajaran dengan pendekatan kontekstual dengan siswa yang mendapat pendekatan konvensional, digunakan uji-t pada $\alpha = 0,05$, dan uji anava dua jalur setelah prasyarat pengujian terpenuhi.

Penelitian ini bertujuan untuk menelaah (1) Perbedaan kemampuan komunikasi matematika siswa yang proses pembelajarannya melalui pendekatan pembelajaran kontekstual dengan siswa yang pembelajarannya melalui pendekatan konvensional, (2) Perbedaan kemampuan komunikasi matematika siswa yang aktivitas belajarnya tinggi dengan siswa yang aktivitas belajarnya rendah, (3) Interaksi antara pembelajaran dengan kemampuan awal matematika siswa terhadap kemampuan komunikasi matematika siswa.

Hasil analisis penelitian menunjukkan bahwa (1) Kemampuan komunikasi matematika siswa yang diberi pembelajaran dengan menggunakan pendekatan kontekstual lebih baik dari siswa yang diberi pembelajaran dengan pendekatan konvensional., (2) Kemampuan komunikasi matematika siswa dengan aktivitas belajar tinggi lebih baik dari siswa dengan aktivitas belajar rendah, (3) Tidak terdapat interaksi antara pendekatan pembelajaran dengan kemampuan awal matematika siswa terhadap kemampuan komunikasi matematika siswa.

ABSTRACT

Iswandi (2013) Analisis of Competence of Mathematics Communication and Learning Activities through Contextual Learning Approach in SMA Negeri 1 Percut Sei Tuan. Mathematics Education Graduate Studies Program, State University of Medan

Key words: Competence of Mathematics Communication, Learning Activities, Contextual Learning Approach

This research is an experimental study on the students in SMA Negeri 1 Percut Sei. Tuan class XI-IPA. The samples are 2 classes taken randomly. The instruments in this research are 1) Test on Competence of Mathematics Communication, 2) Forms of students learning activity, and 3) Form of observation on student learning activity. To see the difference of the improvement of the students competence on mathematics communication between students who were taught by using contextual approach and those are taught by using conventional approach, the researcher used T-test, $\alpha = 0,05$, and analysis of Varian (Two-way ANOVA) after the pre-condition test fulfilled.

This reserch is intended to analyze (1) the difference between Competence of Mathematics Communication of the students who are taught by using contextual learning approach and those who are taught by using conventional approach, (2) the difference between Competence of Mathematics Communication of the students who have more frequent learning avtivity and those who have less frequent learning activity, (3) the effect of learning of the students with initial mathematics competence toward their Competence of Mathematics Communication.

The result of the analisis of research shows that (1) the competence of Competence of Mathematics Communication of the students who are taught by using using contextual learning approach is better than those who are taught by using conventional approach, (2) The Competence of Mathematics Communication of the students with more frequent learning avtivity is better than those are less frequent learning activity, (3) There is no effect of learning of the students with initial mathematics competence toward their Competence of Mathematics Communication.