ABSTRAK

DONI IRAWAN SARAGIH. Perbedaan Kemampuan Pemecahan Masalah Matematis dan Motivasi Belajar Siswa SMP Budi Agung Medan yang Diajar Melalui Model Pembelajaran Kooperatif dengan Model Pembelajaran Kontekstual Berbantuan Software GeoGebra. Tesis. Medan : Program Studi Pendidikan Matematika Pasca Sarjana Universitas Negeri Medan. 2018

Tujuan dari penelitian ini adalah untuk : (1) menganalisis perbedaan kemampuan pemecahan masalah matematis siswa yang belajar melalui model pembelajaran kooperatif dengan model pembelajaran kontekstual berbantuan software GeoGebra, (2) menganalisis perbedaan motivasi belajar siswa yang belajar melalui model pembelajaran kooperatif dengan model pembelajaran kontekstual berbantuan software GeoGebra, (3) mengetahui apakah terdapat interaksi antara model pembelajaran dan gender siswa terhadap kemampuan pemecahan masalah matematis siswa, (4) mengetahui apakah terdapat interaksi antara model pembelajaran dan gender siswa terhadap motivasi belajar siswa, (5) menganalisis proses penyelesaian jawaban tes kemampuan pemecahan masalah matematis siswa yang belajar melalui model pembelajaran kooperatif dengan model pembelajaran kontekstual berbantuan software geogebra. Instrumen yang digunakan terdiri dari : (1) tes kemampuan pemecahan masalah matematis, (2) angket motivasi belajar. Analisis data dilakukan dengan analisis varians (ANAVA) dua jalur. Hasil penelitiaan menunjukkan : (1) terdapat perbedaan kemampuan pemecahan masalah matematis siswa yang belajar melalui model pembelajaran kooperatif dan model pembelajaran kontekstual berbantuan software GeoGebra, (2) terdapat perbedaan motivasi belajar siswa yang belajar melalui model pembelajaran kooperatif dan model pembelajaran kontekstual berbantuan software GeoGebra, (3) terdapat interaksi antara model pembelajaran dan gender terhadap kemampuan pemecahan masalah matematis siswa, (4) terdapat interaksi antara model pembelajaran dan gender terhadap motivasi belajar siswa, (5) proses penyelesaian jawaban siswa kelas model pembelajaran kontekstual lebih baik dibandingkan kelas model pembelajaran kooperatif.

Kata Kunci: Model pembelajaran kooperatif, Model pembelajaran kontekstual, Pemecahan masalah, Motivasi belajar.

ABSTRACT

DONI IRAWAN SARAGIH. The Difference Mathematical Problem Solving Ability and Learning Motivation of Budi Agung Junior High School Students Who Are Taught Throught GeoGebra-Assisted Cooperative and Contextual Learning Model. Thesis. Medan: Postgraduate Mathematics Education Study Program State University of Medan. 2018

This research aimed to: (1) analyze the difference between student's mathematical problem solving ability who are taught throught GeoGebra-assisted cooperative and contextual learning model, (2) analyze difference of student's learning motivation who are taught throught GeoGebra-assisted cooperative and contextual learning model, (3) know whether there is interaction between learning model and student's gender toward students' mathematical problem solving ability, (4) know whether there is interaction between learning model and student's gender toward student's learning motivation, (5) analyze the process of solving the problem by the students in GeoGebra-assisted cooperative and contextual learning model. The instruments used consist of: (1) test of mathematical problem solving ability, (2) questionnaire of learning motivation. Data analysis was performed by two-way ANOVA. The result of the research shows: (1) there are differences between student's mathematical problem solving ability who are taught throught GeoGebra-assisted cooperative and contextual learning model, (2) there are differences between student's learning motivation who are taught throught GeoGebra-assisted cooperative and contextual learning model, (3) there are interaction between learning model and gender to student's mathematical problem solving ability, (4) there are interaction between learning model and gender to student's learning motivation, (5) the process of solving the problem by the students of contextual learning model better than cooperative learning model.

Keywords: Cooperative learning model, Contextual learning model, Problem solving, Learning motivation.