

ABSTRAK

Maruli Simbolon. Pengaruh strategi pembelajaran *problem solving* berbantuan macromedia flash terhadap kemampuan berpikir kritis dan *self-confidence* (rasa percaya diri) siswa kelas VII SMP Negeri 5 Padang Bolak. Tesis. Medan : Program Studi Pendidikan Matematika Pascasarjana Universitas Negeri Medan 2017.

Tujuan penelitian ini adalah untuk mengetahui : (1) Apakah terdapat pengaruh strategi pembelajaran *problem solving* berbantuan macromedia flash terhadap kemampuan berpikir kritis matematis siswa. (2) Apakah terdapat pengaruh strategi pembelajaran *problem solving* berbantuan macromedia flash terhadap *self-confidence* siswa. (3) Interaksi antara pembelajaran dan kemampuan awal matematika (KAM) terhadap kemampuan berpikir kritis siswa. (4) Interaksi antara pembelajaran dan KAM terhadap *self-confidence* siswa. Jenis penelitian ini adalah *quasi eksperiment*. Populasi penelitian ini adalah seluruh siswa SMP Negeri 5 Padang Bolak. Sampel penelitian ini adalah Kelas VII-A (25 siswa) diajarkan dengan strategi *problem solving* dan kelas VII-B (25 siswa) diajarkan dengan konvensional. Instrumen yang digunakan terdiri dari tes kemampuan berpikir kritis dan angket *self-confidence* siswa. Analisis yang dilakukan menggunakan ANAVA. Hasil penelitian menunjukkan bahwa : (1) Terdapat pengaruh yang signifikan terhadap kemampuan berpikir kritis siswa yang diajarkan dengan strategi pembelajaran *problem solving* berbantuan macromedia flash. (2) Terdapat pengaruh yang signifikan terhadap *self-confidence* siswa yang diajarkan dengan strategi pembelajaran *problem solving* berbantuan macromedia flash. (3) Tidak terdapat interaksi yang signifikan antara strategi pembelajaran dan KAM terhadap kemampuan berpikir kritis siswa. (4) Tidak terdapat interaksi yang signifikan antara model pembelajaran dan KAM terhadap *self-confidence* siswa.

Kata kunci : Strategi pembelajaran *problem solving*, macromedia flash, kemampuan berpikir kritis dan *self-confidence*.

ABSTRACT

Maruli Simbolon. The effect of problem solving learning strategy by using macromedia flash thinking ability and self-confidence of student class VII SMP Negeri 5 Padang Bolak. Thesis. Medan: Mathematic Education Post Graduate Program of Medan University 2017.

This research aimed to determine : (1). Whether there is influence of problem solving learning strategy by using macromedia flash toward students mathematical critical thinking ability. (2) Whether there is influence of problem solving learning strategy by using macromedia flash toward students self-confidence. (3) Whether there is interaction between learning strategy and student's mathematic prior knowledge toward the critical thinking ability. (4) Whether there is interaction between learning strategy and student's mathematic prior knowledge toward the self-confidence. The type of research is quasi experiment. The population of research was all student SMP Negeri 5 Padang Bolak, The sampel of research are student class VII-A (25 student) were taught by problem solving learning strategy and class VII-B (25 student) were taught by conventional method. The instrument used are consist from the test capabilities of critical thinking ability and enquette student self-confidence. The analysis was performed using ANOVA . The results showed that: (1) There is a significant influence on critical thinking ability of students were taught by problem solving learning strategy by using macromedia flash. (2) There is a significant influence of student were taught self-confidence by problem solving learning strategy by using macromedia flash. (3) There is no significant interaction between the learning strategy and mathematic prior knowledge towards mathematical critical thinking ability. (4) There is no significant interaction between the learning strategy and mathematic prior knowledge towards self-confidence.

Key words: Problem solving learning strategy, macromedia flash, critical thinking ability and self-confidence.