

ABSTRAK

Lestari Roswahyuliani (2024). **Model *Connecting, Organizing, Reflecting, Extending* Berbantuan VBA Powerpoint untuk Meningkatkan Kemampuan Berpikir Kritis dan Disposisi Matematis Siswa**

Penelitian ini bertujuan untuk mengetahui dan menelaah perbedaan pencapaian dan peningkatan kemampuan berpikir kritis matematis dan disposisi matematis siswa yang memperoleh pembelajaran menggunakan model CORE (*Connecting, Organizing, Reflecting, Extending*) berbantuan *vba powerpoint* ditinjau dari level kemampuan awal matematis dan faktor pembelajaran. Penelitian ini merupakan penelitian *mixed methode* dengan menggunakan desain *sequential explanatory*. Populasi dalam penelitian ini merupakan peserta didik kelas X di salah satu sekolah menengah atas di Kabupaten Bandung Barat. Terdapat 72 siswa kelas sepuluh yang menjadi sampel dalam penelitian ini yang terbagi kedalam tiga jenis level kemampuan awal matematis yaitu tinggi, sedang, dan rendah. Instrumen yang digunakan adalah tes diagnostik untuk mengukur kemampuan awal matematis siswa, tes formatif kemampuan berpikir kritis matematis, angket disposisi matematis, angket respon siswa, dan lembar observasi guru. Analisis data dalam penelitian ini adalah analisis parametrik. Hasil penelitian mengungkapkan bahwa : (1) tidak terdapat perbedaan kemampuan awal matematis siswa pada kelas yang mendapatkan model pembelajaran CORE dan kelas yang mendapatkan model pembelajaran biasa; (2) terdapat perbedaan pencapaian kemampuan berpikir kritis matematis siswa ditinjau dari level kemampuan awal matematis (tinggi, sedang, rendah) dan faktor pembelajaran; (3) terdapat perbedaan peningkatan kemampuan berpikir kritis matematis siswa ditinjau dari level kemampuan awal matematis (tinggi, sedang, rendah) dan faktor pembelajaran; (4) terdapat perbedaan pencapaian disposisi siswa ditinjau dari level kemampuan awal matematis (tinggi, sedang, rendah) dan faktor pembelajaran; (5) model pembelajaran CORE berbantuan *vba powerpoint* efektif digunakan untuk meningkatkan kemampuan berpikir kritis matematis dan disposisi matematis pada materi perbandingan trigonometri; (6) model pembelajaran CORE berbantuan *vba powerpoint* memiliki dampak positif dalam meningkatkan kemampuan berpikir kritis matematis dan disposisi matematis pada materi perbandingan trigonometri.

Kata Kunci: Model Pembelajaran CORE, Kemampuan Berpikir Kritis Matematis, Disposisi Matematis, Kemampuan Awal Matematis

ABSTRACT

Lestari Roswahyuliani (2024). **Connecting, Organizing, Reflecting, Extending Model assisted VBA Powerpoint to Improve Students' Critical Thinking Ability and Mathematical Disposition.**

This study aims to determine and examine the differences in achievement and improvement of mathematical critical thinking skills and mathematical disposition of students who get learning using the CORE (Connecting, Organising, Reflecting, Extending) model assisted by vba powerpoint in terms of the level of initial mathematical ability and learning factors. This research is a mixed method research using sequential explanatory design. The population in this study were grade X students in one of the high schools in West Bandung Regency. There were 72 tenth grade students who became samples in this study which were divided into three types of mathematical initial ability levels namely high, medium, and low. The instruments used were diagnostic test to measure students' initial mathematical ability, formative test of mathematical critical thinking ability, mathematical disposition questionnaire, student response questionnaire, and teacher observation sheet. Data analysis in this study was parametric analysis. The results revealed that: (1) there is no difference in students' initial mathematical ability in the class that received the CORE learning model and the class that received the ordinary learning model; (2) there is a difference in the achievement of students' mathematical critical thinking ability in terms of the level of initial mathematical ability (high, medium, low) and learning factors; (3) there are differences in the improvement of students' mathematical critical thinking ability in terms of the level of initial mathematical ability (high, medium, low) and learning factors; (4) there are differences in the achievement of students' disposition in terms of the level of initial mathematical ability (high, medium, low) and learning factors; (5) the CORE learning model assisted by vba powerpoint is effective in improving mathematical critical thinking skills and mathematical disposition in trigonometric comparison; (6) the CORE learning model assisted by vba powerpoint has a positive impact on improving mathematical critical thinking skills and mathematical disposition in trigonometric comparison.

Keywords: CORE Learning Model, Mathematical Critical Thinking Skills, Mathematical Disposition, Mathematical early ability.