

ABSTRAK

Ummu Habibah Hadi Kesuma, NIM 4181111041 (2022). Penerapan Model *Think Talk Write (TTW)* Berbantuan Geogebra Untuk Meningkatkan Kemampuan Pemahaman Konsep Matematis Siswa Kelas X MAS PAB 2 HELVETIA.

Tujuan dari penelitian ini adalah untuk meningkatkan kemampuan pemahaman konsep matematis siswa dengan menerapkan model pembelajaran *Think Talk Write (TTW)* berbantuan geogebra di kelas X MAS PAB 2 Helvetia tahun ajaran 2022/2023. Kemampuan pemahaman konsep matematis siswa diartikan sebagai suatu kemampuan kognitif siswa dalam memahami materi, memproses materi, menjelaskan serta mengaplikasikannya dalam pembelajaran matematika. Subjek dalam penelitian ini adalah siswa kelas X MIA 1 MAS PAB 2 Helvetia yang berjumlah 36 orang. Teknik pengumpulan data yang digunakan adalah lembar observasi guru, tes kemampuan pemahaman konsep matematis dan dokumentasi. Penelitian ini merupakan penelitian tindakan kelas (PTK) yang terdiri dari 2 siklus, masing-masing siklus terdiri dari 2 kali pertemuan. Sebelum melakukan tindakan, terlebih dahulu diberikan tes awal dan disetiap akhir siklus diberikan tes kemampuan pemahaman konsep matematis siswa. Hasil tes kemampuan pemahaman konsep matematis siswa mengalami peningkatan dari tes awal, siklus I, dan siklus II. Pada tes awal secara klasikal diperoleh 5 siswa (13,89%) tuntas dan rata-rata kemampuan tes awal adalah 53,99 dengan tingkat kemampuan kategori sangat rendah. Pada tes siklus I mengalami peningkatan secara klasikal diperoleh 4 siswa (44,4%) tuntas dan rata-rata kemampuan diperoleh 64,40 dengan tingkat kemampuan kategori rendah. Kemudian pada tes siklus II mengalami peningkatan pula secara klasikal diperoleh 33 siswa (91,67%) tuntas dan rata-rata kemampuan diperoleh 88,02 dengan tingkat kemampuan kategori tinggi. Dengan demikian dapat disimpulkan bahwa penerapan model pembelajaran *Think Talk Write (TTW)* berbantuan geogebra dapat meningkatkan kemampuan pemahaman konsep matematis siswa kelas X MAS PAB 2 Helvetia.

Kata kunci: Model *Think Talk Write*, Peningkatan Kemampuan Pemahaman Konsep Matematis

ABSTRACT

Ummu Habibah Hadi Kesuma, NIM 4181111041 (2022). Application Of Think Talk Write (TTW) Model Assisted By Geogebra To Improve Student's Ability of Mathematical Concept Understanding In Class X of MAS PAB 2 Helvetia.

The purpose of this study was to improve students' ability to understand mathematical concepts by applying Think Talk Write (TTW) using GeoGebra in class X MAS PAB 2 Helvetia in the 2022/2023 school year. The ability to understand students' mathematical concepts is defined as students' cognitive abilities in understanding the theory, processing theory, and explaining and applying theory in learning mathematics. The subjects in this study were students of class X MIA 1 MAS PAB 2 Helvetia which consist of 36 people. The data collection technique used the teacher's observation sheet, tests of the ability to understand mathematical concepts, and documentation. The researcher used classroom action research (CAR) which consisted of 2 cycles, each cycle consisting of 2 meetings. Before taking action, a preliminary test is given and at the end of each cycle, a test of students' ability to understand mathematical concepts is given. The results of the student's ability to understand mathematical concepts increased from the preliminary test, cycle I, and cycle II. In the classical preliminary test, 5 students (13.89%) completed and the average ability of the preliminary test was found to be 53.99 with the ability level in the very low category. In the first cycle test experienced an increase in classical, 4 students (44.4%) completed and obtained an average of 64.40 with the ability level in the low category. Then in the second cycle, there was also an increase in classical which 33 students (91.67%) completed and the average ability was 88.02 with the ability level in the high category. Thus, it can be concluded that the application of Think Talk Write (TTW) using GeoGebra can improve the ability to understand mathematical concepts of class X MAS PAB 2 Helvetia students.

Kata kunci: *Think Talk Write*, *Improve Mathematical Student Concept Understanding Ability*.