

ABSTRAK

Titania Amartin (2022). **Pengaruh Model *Discovery Learning* Berbantuan *GeoGebra* terhadap Kemampuan Penalaran Matematis dan *Productive Disposition* Siswa SMP.**

Model pembelajaran yang sesuai tentunya sangatlah diperlukan demi terciptanya pembelajaran yang baik serta tercapainya tujuan pembelajaran. Oleh karena itu salah satu alternatif pemberian model pembelajaran yang menarik siswa untuk mempelajari matematika serta dapat disesuaikan dengan penerapan teknologi adalah model *discovery learning* dengan bantuan aplikasi *GeoGebra*. Tujuan penelitian ini adalah : (1) untuk mengetahui peningkatan kemampuan penalaran matematis siswa yang memperoleh model pembelajaran *discovery learning* berbantuan *GeoGebra* dengan model pembelajaran konvensional, (2) untuk mengetahui *productive disposition* siswa yang memperoleh model pembelajaran *discovery learning* berbantuan *GeoGebra* dengan model pembelajaran konvensional, (3) Untuk mengetahui korelasi antara kemampuan penalaran matematis dan *productive disposition* siswa yang memperoleh model pembelajaran *discovery learning* berbantuan *GeoGebra*. Metode penelitian yang digunakan yaitu metode penelitian kuasi eksperimen (*quasi-experiment*). Subjek dari penelitian ini adalah siswa kelas VII SMP Pasundan 2 Bandung tahun ajaran 2021-2022 dengan objeknya yaitu kemampuan penalaran matematis dan *productive disposition* siswa SMP. Berdasarkan analisis data hasil penelitian, didapat kesimpulan : 1) peningkatan kemampuan penalaran matematis siswa yang memperoleh model *discovery learning* berbantuan *GeoGebra* lebih baik daripada siswa yang memperoleh model pembelajaran konvensional, 2) *productive disposition* siswa yang memperoleh model *discovery learning* berbantuan *GeoGebra* lebih baik daripada siswa yang memperoleh model pembelajaran konvensional, 3) terdapat korelasi antara kemampuan penalaran matematis dengan *productive disposition* siswa yang memperoleh model *discovery learning* berbantuan *GeoGebra*.

Kata Kunci : Kemampuan Penalaran Matematis, *Productive Disposition*, Model *Discovery Learning*, *GeoGebra*

ABSTRACT

Titania Amartin (2022). *The Effect of Discovery Learning Model Assisted by GeoGebra on Mathematical Reasoning Ability and Productive Disposition of Junior High School Students*

An appropriate learning model is of course very necessary for the creation of good learning and the achievement of learning objectives. Therefore, one alternative to providing a learning model that attracts students to learn mathematics and can be adapted to the application of technology is the discovery learning model with the help of the GeoGebra application. The aims of this study are: (1) to determine the increase in mathematical reasoning abilities of students who receive the GeoGebra-assisted discovery learning model with conventional learning models, (2) to determine the productive disposition of students who obtain GeoGebra-assisted discovery learning learning models with conventional learning models, (3) To find out the correlation between mathematical reasoning ability and productive disposition of students who obtained the GeoGebra-assisted discovery learning model. The research method used is a quasi-experimental research method (quasi-experiment). The subjects of this study were seventh grade students of SMP Pasundan 2 Bandung in the academic year 2021-2022 with the object being the mathematical reasoning ability and productive disposition of junior high school students. Based on the analysis of the research data, the conclusions are: 1) the increase in mathematical reasoning abilities of students who get the GeoGebra-assisted discovery learning model is better than students who get the conventional learning model, 2) the productive disposition of students who get the GeoGebra-assisted discovery learning model is better than students who obtain a conventional learning model, 3) there is a correlation between mathematical reasoning abilities and the productive disposition of students who obtain the GeoGebra-assisted discovery learning model.

Keywords : *Mathematical Reasoning Ability, Productive Disposition, Discovery Learning Model, GeoGebra*