ABSTRACT

Kasiyadi, Rizki (2018). Enhancing Mathematical Connections and Mathematical Disposition of High School Students through Alberta Model Inquiry Learning.

The ability of mathematical connections is important for students because in mathematics between one material with another material is interrelated. In addition, mathematical disposition abilities also have an important role in the achievement of mathematics learning goals. One learning model is the Alberta Model Inquiry learning. The purpose of this study is (1) to determine the improvement of students' mathematical connection ability who obtained the Alberta Model Inquiry learning model with students who obtained conventional learning models; (2) to determine the mathematical disposition ability of students who obtained the Alberta Model Inquiry learning model with students who obtained conventional learning models; (3) to determine the correlation between mathematical connection abilities and mathematical dispositions of students who obtained the Alberta Model Inquiry learning model; The method used in this study is an experimental method with a quasi-experimental research design. The population in this study were students of SMA Pasundan 8 Bandung and the sample was two classes X in Pasundan 8 Bandung High School which were randomly selected. The instrument used in this study is a mathematical connection ability test and a mathematical disposition questionnaire. Based on the data analysis and research findings obtained, it can be concluded that (1) Increasing the mathematical connection ability of students who obtain the Alberta Model Inquiry learning model is better than the connection ability of students who obtain conventional learning; (2) The mathematical disposition of students who obtain the Alberta Model Inquiry learning model is better than the mathematical disposition of students who obtain conventional learning models; (3) There is no correlation between mathematical connection abilities and mathematical dispositions of students who obtain the Alberta Model Inquiry learning model.

Keywords: Alberta Model Inquiry, Mathematical Connection Ability, Mathematical Disposition, Conventional Learning.