

## ABSTRACT

Hidayat, P. M. (2018). **Improved mathematical creative thinking skills and self-regulated learning in class X high school students through guided inquiry learning models.**

Mathematical creative thinking ability has an important role in the success of students mastering mathematics material but in reality this capability is still inadequate. Self-regulated learning must be planted and cultivated in students, because seeing the role of self-regulated learning in mathematics learning is very important. This study aims: (1) To determine whether the increase in mathematical creative thinking abilities of students who obtain guided inquiry learning models are better than students who obtain ordinary learning. (2) To find out whether self-regulated learning of high school students who have guided inquiry learning models is better than students who get ordinary learning. (3) To determine whether there is a correlation between mathematical creative thinking skills and self-regulated learning students who obtain guided inquiry learning models. The method used to this study is an experimental method with pretest-posttest control research design. The population in this study were all students of class X of SMAN 1 Klari. The sample of this study consisted of 2 groups, namely class X IPA 6 as an experimental group that received guided inquiry learning model and group X IPA 4 as a control group that received the usual learning model. The instrument used in this study is a description of the test of mathematical creative ability and the scale of self-regulated learning. The data collected is then processed using IBM SPSS 20.0 for Windows software. The results showed that: (1) students' mathematical creative thinking ability who obtained guided inquiry learning model was better than students who obtained ordinary learning models; (2) Self-regulated learning of students who obtain learning guided inquiry learning models better than students who obtain ordinary learning models; (3) There is a correlation between mathematical creative thinking skills and self-regulated learning students who obtain guided inquiry learning models.

**Keywords:** Guided inquiry, Mathematical creative thinking ability, Self-regulated learning.