

## ABSTRACT

**HELMANITA KIBTIA**, The Development of Mathematics' Teaching Materials Module By Using Guided Discovery On Angle Measurement Up To Trigonometry Identity at Class X. Mini Thesis. Jakarta: Program Study Program of Mathematics Eduaction, Faculty of Mathematics and Science, State University of Jakarta, 2017.

The purpose of this research is to develop mathematics' teaching materials module at class X of Senior High School on main topic Trigonometry which appropriate with the syllabus of compulsory mathematics subject for 2013 Curriculum of The Ministry of Education and Culture. The teaching materials to be developed was using guided discovery.

The method of this research is research and development. The preliminary research in the form of necessity analysis was conduct towards 61 students at Class X1 SMA Negeri 8 Tangerang Selatan. While for the development stage comprises the forming of the Media Content Outline (GBIM), the writing of module draft, proficient validation, revision, teacher evaluation, small group trial, large group trial, was conduct to produce the final product.

Based on the research result, there are obtained some conclusions as follows:

1. The result of this development research is mathematics' teaching materials module on topic of angle measurement up to identity trigonometry at class X. The module appropriate with the main competency, basic competency, and indicator of 2013 Curriculum Content Standard.
2. The mathematics module by using guided discovery has pass through series of assesments which comprise proficient validation with excellent scoring interpretation result; teacher evaluation with good scoring interpretatin result; small group trial with excellent scoring interpretation result; and large group trial with good scoring interpretation result.

Based on the research result, the mathematics module using guided discovery that has been created through the development stage receive good response from students and teacher. This module can be used as a supporting for mathematics learning in classroom.

**Keywords:** research and development, guided discovery, mathematics module, trigonometry