

**THE EFFORT TO INCREASE STUDENTS' MATHEMATICAL
COMMUNICATION ABILITY THROUGH SOMATIC, AUDITORY,
VISUAL, AND INTELLECTUAL (SAVI) APPROACH ON TOPIC
INVERSE FUNCTION AT GRADE XI SMA NEGERI 1
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ABSTRACT

The aim of this research is to increase students' mathematical communication ability through Somatic, Auditory, Visual, and Intellectual (SAVI) approach was done in SMA Negeri 1 Perbaungan. The type of this research is Classroom Action Research. The research had done respect to the student of XI Science in number 27 students.

Instruments used to collect the data were mathematical communication ability test, observation sheet, questionnaire of student response, and documentation. This research had done in two cycles which each cycle had three meetings and the end of each meeting was given mathematical communication ability test. Before given, at the first tests must be validity. Validity test done is contents validity where expert as validator.

The result in this research had shown that learning by SAVI approach can increase students' mathematical communication ability. After given treatment the students had done the mathematical communication ability tests in cycle I of 27 students there were 3 students (11.11%) gained the score ≥ 75 with the average score of class was 62.31. It increased in cycle II which the average score of class was 81.89 with 24 students (88.89%) gained the score ≥ 75 . The observation sheet of teacher activity obtained the average score 3.3 (82.5%) is classified in good category. In cycle 2 increased to be 3.6 (90%) and classified in very good category. The observation sheet of student activity obtained the average score 3.25 (81.25%) is classified in good category. In cycle 2 increased to be 3.6 (90%) is classified in very good category. This observation result was supported with the result of questionnaire of student response which is classified in good category.

Keywords: SAVI Approach, Mathematical Communication Ability