

ABSTRACT

AGHNIYA BARKAH RIZQIYAH.2023. Analysis of Mathematical Critical Thinking Ability in Solving Problems of Sequences and Series in View of Critical Thinking Dispositions

This study aims to describe students' mathematical critical thinking skills in solving sequence and series problems in terms of critical thinking dispositions. This type of research is descriptive qualitative. This subject selection technique was carried out by purposive sampling technique or certain considerations, the consideration in question is the level of students' critical thinking disposition. The subjects in this study were 9 students of class XI IPA SMA IT Ibadurrohman, Tasikmalaya City, West Java, consisting of 3 students with high critical thinking dispositions, 3 students with moderate critical thinking dispositions and 3 students with low critical thinking dispositions. Data collection through tests of critical thinking skills in line and series material, and a validated critical thinking disposition questionnaire and unstructured interviews. The critical thinking ability test questions are in the form of essay questions to measure indicators of critical thinking ability. Data analysis techniques in this study are data reduction, data presentation and conclusion. Based on the indicators of mathematical critical thinking ability put forward by Ennis, the results of this study are 1) Research subjects with a high level of critical thinking disposition (DBKT) have good critical thinking skills as indicated by their mastery of the six indicators of mathematical critical thinking ability. 2) Research subjects with moderate levels of critical thinking disposition (DBKS) have diverse critical thinking abilities, DBKS1 only meets 5 out of 6 indicators of mathematical critical thinking ability, with indicators that are not met namely focus on problems, DBKS 2 fulfills all indicators, and DBKS3 only fulfills 2 indicators of mathematical critical thinking skills, namely focusing on problems and taking steps to solve them. 3) Research subjects with a low level of critical thinking disposition (DBKR) meet 2 indicators of mathematical critical thinking ability, namely focusing on problems and stating whether or not the results of problem solving are correct.

Keywords: Mathematical Critical Thinking Ability, Linear and Series Problems, Critical Thinking Disposition