

## SARI

**Zulaikha, N. F. 2020.** *Analisis Tingkat Kemampuan Berpikir Kreatif Materi Trigonometri.* Pendidikan Matematika. Universitas Islam Sultan Agung. Pembimbing I Hevy Risqi Maharani, M.Pd., Pembimbing II Mochamad Abdul Basir, M.Pd.

### **Kata Kunci: Tingkat Kemampuan Berpikir Kreatif, Trigonometri**

Kemampuan berpikir kreatif merupakan kemampuan yang harus dimiliki oleh siswa. Rendahnya kemampuan berpikir kreatif siswa di SMAN 1 Bae Kudus pada kelas X MIPA 7 sesuai dengan pengamatan pembelajaran dikelas, pengamatan peneliti terhadap hasil prestasi siswa, serta hasil wawancara peneliti dengan guru. Oleh itu karena tujuan dari penelitian ini adalah untuk mengetahui sejauh mana tingkat kemampuan berpikir kreatif siswa terhadap materi trigonometri. Dalam hal ini peneliti menggunakan 3 indikator untuk mengukur tingkat kemampuan berpikir kreatif yakni indikator kefasihan, fleksibilitas, dan kebaruan.

Jenis penelitian ini merupakan penelitian kualitatif. Subjek dalam penelitian ini adalah minimal 2 siswa dalam kategori kemampuan awal matematika tinggi, minimal 2 siswa dengan kemampuan awal matematika sedang, dan minimal 2 siswa dengan kemampuan awal matematika rendah. Pengambilan subjek tersebut berdasarkan teknik purposive sampling. Sedangkan untuk metode pengumpulan data menggunakan tes kemampuan berpikir kreatif, serta wawancara. Teknik analisis data dalam penelitian ini meliputi: (1) mereduksi data, yang berupa pemilihan subjek penelitian serta hasil wawancara. Pemilihan subjek penelitian berdasarkan kemampuan awal matematika yang dikategorikan sesuai dengan kriteria pengelompokan kemampuan awal matematika berdasarkan nilai rata-rata serta simpangan baku. (2) penyajian data, peneliti menyajikan data dari hasil tes serta wawancara. (3) penarikan kesimpulan, digunakan untuk mengetahui tingkat kemampuan berpikir kreatif siswa pada materi trigonometri.

Adapun hasil penelitian ini adalah siswa dengan kemampuan awal matematika tinggi mempunyai tingkat kemampuan berpikir kreatif pada tingkat 4 (sangat kreatif) dan tingkat 3 (kreatif), siswa dengan kemampuan awal matematika sedang mempunyai tingkat kemampuan berpikir kreatif pada tingkat 3 (kreatif), serta siswa dengan kemampuan awal matematika rendah memiliki tingkat kemampuan berpikir kreatif pada tingkat 1(kurang kreatif) dan tingkat 0 (tidak kreatif). Berdasarkan hasil penelitian tersebut diharapkan penelitian ini mampu dijadikan sebagai sumber referensi guna meningkatkan tingkat kemampuan berpikir kreatif agar siswa mempunyai tingkat kemampuan berpikir kreatif secara optimal.

## ABSTRACT

**Zulaikha, N. F. 2020.** *Analysis of the Level of Creative Thinking Ability in Trigonometric Materials.* Mathematics education. Sultan Agung Islamic University. Advisor I Hevy Risqi Maharani, M.Pd., Supervisor II Mochamad Abdul Basir, M.Pd.

**Keywords: Level of Creative Thinking Ability, Trigonometry**

Creative thinking ability is an ability that must be present in students.. Students Creative thinking ability is low at SMAN 1 Bae Kudus in class X MIPA 7 based on observations of learning in class, observations of researcher on student achievement results, the results of interviews between researcher and teacher. Therefore, the purpose of this research is to describe creative thinking ability levels of students to trigonometric material further. In this case the researcher uses indicator of fluency, flexibility, and novelty to measure the level of creative thinking ability.

This type of this research was a qualitative research. The subjects in this research were 2 students in the category of high initial mathematics ability, 2 students with moderate initial mathematics ability, and 2 students with low initial mathematics ability. The subjects were taking based on purposive sampling technique. As for the data collection methods were using tests of creative thinking ability and interviews. The data analysis technique in this study includes: (1) reduced data, in the form of selecting research subjects and interview results. The selection of research subjects was based on initial mathematical abilities which were categorized according to the criteria for grouping initial mathematical ability based on average scores and standard deviation. (2) presented of data, the researcher presents from the results of tests and interviews. (3) drawing conclusions, were used to determine the level of students' creative thinking skills in trigonometric material.

The results of this research were  $ST_1$  and  $ST_2$  with high initial mathematics ability,  $SS_1$  and  $SS_2$  with moderate initial mathematics ability,  $SR_1$  and  $SR_2$  with low initial mathematics ability. Students with high initial mathematics ability had creative thinking ability at level very creative, students with moderate initial mathematics ability had creative thinking ability at level creative. , as well as students with low initial mathematics ability had creative thinking ability at level less creative and not creative. So the differences in the level of creative thinking ability were caused by their different learning experiences and learning motivations.