

ABSTRAK

Agustriansyah, Dicky. 2017. Keefektifan *Discovery Learning* Bernuansa Etnomatematika terhadap Kemampuan Berpikir Kreatif Siswa pada Pokok bahasan Koordinat Kartesius. Universitas Islam Sultan Agung. Pembimbing I. Imam Kusmaryono, M.Pd., Pembimbing II. Nila Ubaidah, M.Pd.

Kata Kunci : *Discovery Learning*, Etnomatematika, Kemampuan Berpikir Kreatif.

Kemampuan berpikir kreatif merupakan salah satu fokus pembelajaran yang penting dikembangkan dalam pembelajaran matematika. Salah satu pembelajaran matematika yang efektif untuk mengembangkan kemampuan berpikir kreatif matematis siswa adalah pembelajaran model *Discovery Learning*. Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Discovery Learning* bernuansa Etnomatematika terhadap kemampuan berpikir kreatif siswa SMP pada pokok bahasan koordinat kartesius dengan kriteria: (1) terdapat pengaruh aktivitas dan motivasi siswa dalam pembelajaran *discovery learning* bernuansa etnomatematika terhadap kemampuan berpikir kreatif siswa pada pokok bahasan koordinat kartesius; (2) rata-rata dari kemampuan berpikir kreatif siswa dengan model pembelajaran *discovery learning* bernuansa etnomatematika pada pokok bahasan koordinat kartesius mencapai KKM sebesar 75; (3) rata-rata nilai kemampuan berpikir kreatif siswa dalam pembelajaran *discovery learning* bernuansa etnomatematika pada pokok bahasan koordinat kartesius lebih dari rata-rata kemampuan berpikir kreatif siswa dengan metode ekspositori. Penelitian ini merupakan penelitian kuantitatif eksperimen. Populasi penelitian ini seluruh siswa kelas VIII SMP Negeri 32 Semarang tahun pelajaran 2017/2018. Pengumpulan data penelitian menggunakan metode tes, metode observasi, dan metode angket. Pengujian data dengan $\alpha = 5\%$ meliputi uji sampel, uji instrumen tes, dan uji hipotesis penelitian. Penelitian menggunakan uji regresi linear berganda, uji t satu sampel dan , uji t dua sampel untuk pengujian hipotesis. Hasil penelitian menunjukkan bahwa : (1) hasil uji regresi linier ganda menunjukkan adanya pengaruh motivasi dan aktivitas belajar siswa terhadap kemampuan berpikir kreatif yaitu sebesar 92,4 % dan dapata disajikan dalam model persamaan regresi linier berganda $\hat{Y} = -56,055 - 0,215 X_1 + 2,047X_2$, (2) hasil *one sample T Test* diperoleh nilai *mean* sebesar 82,33 dan nilai Sig. (2-tailed) = 0,012 < 0,05 yang dapat diartikan bahwa rata-rata kemampuan berpikir kreatif siswa mencapai KKM 75, dan (3) hasil *Independent Sampel T Test* menunjukkan bahwa rata-rata kemampuan berpikir kreatif matematika siswa kelas eksperimen sebesar 82,33 lebih baik daripada rata-rata kemampuan berpikir kreatif matematika siswa kelas kontrol sebesar 76,25 dengan selisih sebesar 6,08. Oleh karena itu, model pembelajaran *Discovery Learning* bernuansa etnomatematika dapat meningkatkan kemampuan berpikir kreatif matematika siswa.

ABSTRACT

Agustriansyah, Dicky. 2017. *The Effectiveness of Discovery Learning Ethnomatematic Nuances to the Ability of Student Creative Thinking Ability on Cartesian Coordinate Subject. Sultan Agung Islamic University. Supervisor I. Imam Kusmaryono, M.Pd., Supervisor II. Nila Ubaidah, M.Pd.*

Keywords : *Discovery Learning, Ethnomatematics, Ability to creative thinking*

The ability of creative thinking is one of the important learning focuses developed in the learning of mathematics. One of the effective mathematics learning to develop students' mathematical creative thinking ability is learning model of Discovery Learning. This research is aimed to know the influence of learning model of Discovery Learning nuances of ethnomatematics to the creative thinking ability of junior high student on cartesian coordinate subject with criteria: (1) there is influence of activity and motivation of students in learning discovery learning nuance of ethnomatematics to students' creative thinking ability on coordinate subject Cartesians; (2) the average of students' creative thinking ability with learning model of ethnomatematic discovery learning on cartesian coordinate subject reach KKM equal to 75; (3) the average value of creative thinking ability of students in learning discovery learning nuances of ethnomatematics on cartesian coordinate subject is more than the average of students' creative thinking ability with expository method. This research is a quantitative research experiment. The population of this study is all students of class VIII SMP Negeri 32 Semarang academic year 2017/2018. The data were collected using test method, observation method, and questionnaire method. Testing data with $\alpha = 5\%$ include sample test, test instrument test, and test of research hypothesis. The research used multiple linear regression test, one sample t test and two sample t test for hypothesis testing. The results of this result showed that: (1) the result of multiple linear regression test showed the influence of motivation and student learning activity toward creative thinking ability that is 92,4% and can be presented in multiple linear regression model $Y = -56,055 - 0,215 X_1 + 2,047 X_2$, (2) result of one sample T Test obtained by mean value equal to 82,33 and value Sig. (2-tailed) = 0.012 < 0.05 which means that the average ability the students' creative thinking reached KKM 75, and (3) the result of Independent Sampel T Test showed that the average ability of creative thinking of mathematics of experimental class students was 82,33 better than the average ability of creative thinking of mathematics of control class student equal to 76,25 with difference of 6.08. Therefore, the learning model of Discovery Learning nuances of ethnomatematics can improve students' creative thinking ability in mathematics.