

ISBN : 978 - 979 - 16353 - 7 - 0



# PROCEEDING

INTERNATIONAL SEMINAR AND  
THE FOURTH NATIONAL CONFERENCE  
ON MATHEMATICS EDUCATION  
2011

## “Building the Nation Character through Humanistic Mathematics Education”

Presented by :



Yogyakarta, July 21-23 2011

Department of Mathematics Education  
Faculty of Mathematics and Natural Science  
Yogyakarta State University



## PROCEEDINGS

International Seminar and the Fourth National Conference on  
Mathematics Education

Department of Mathematics Education, Yogyakarta State  
University

July, 21-23 2011

Held by:

Departement of Mathematics Education  
Faculty of Mathematics and Natural Science  
Yogyakarta State University

Published by:

Departement of Mathematics Education  
Faculty of Mathematics and Natural Science  
Yogyakarta State University  
Karangmalang, Sleman, Yogyakarta

Faculty of Mathematics and Natural Science  
UNY, 2012

1<sup>st</sup> Issue

May 2012 Issue

Katalog of The Issue (KDT)

Reviewers : Prof. Dr. Ahmad Fuzan [et.al] - Yogyakarta,  
Mathematics and Natural Science Faculty

Editors : Nur Hadi W [et.al] - Yogyakarta, Yogyakarta,  
Faculty of Mathematics and Natural Science  
Yogyakarta State University, 2012

The proceeding can be accessed at :

<http://eprints.uny.ac.id/view/subjects/prosiding.html>

ISBN : 978-979-16353-7-0

**978-979-16353-7-0**

Process editing of all the articles in proceedings is  
conducted by the Team Reviewer International Seminar and the Fourth  
National Conference on Mathematics Education from Departement of  
Mathematics Education, Faculty of Mathematics and Natural  
Science, Yogyakarta State University



## PROCEEDING

International Seminar and the Fourth National Conference on  
Mathematics Education

Department of Mathematics Education,  
Faculty of Mathematics and Natural Science

Yogyakarta State University

July, 21-23 2011

*This paper has been presented at  
International Seminar and the Fourth National Conference on Mathematics Education  
“Building the Nation Character through Humanistic Mathematics Education”  
Department of Mathematics Education, Yogyakarta State University,  
Yogyakarta, July 21-23 2011*

### Paper Reviewers :

1. Prof. Ahmad Fauzan (*Padang State University*)
2. Abdur Rahman As'ari, MA (*Malang State University*)
3. Dr. Cholis Sa'dijah, M.Pd, M.A (*Malang State University*)
4. Prof. Dr. Jozua Sabandar (*UPI Bandung*)
5. Prof. Yaya S. Kusuma, M.Sc., Ph.D. (*UPI Bandung*)
6. Dr. Turmudi (*UPI Bandung*)
7. Prof Dr. Sutarto Hadi (*Lambung Mangkurat University*)
8. Dr. Rahmah Johar (*Syah Kuala University*)
9. Dr. Yansen Marpaung (*USD Yogyakarta*)
10. Prof. Dr. Rusgianto H.S. (*Yogyakarta State University*)
11. Sukirman, M.Pd. (*Yogyakarta State University*)
12. Dr. Marsigit (*Yogyakarta State University*)
13. Dr. Agus Maman Abadi (*Yogyakarta State University*)
14. Dr. Hartono (*Yogyakarta State University*)
15. Dr. Djamilah B.W., M.Si (*Yogyakarta State University*)
16. Dr. Sugiman (*Yogyakarta State University*)
17. Dr. Ali Mahmudi (*Yogyakarta State University*)
18. Dr. Jailani (*Yogyakarta State University*)
19. Dr. Dhoriva Urwatul Wutsqo (*Yogyakarta State University*)
20. Dr. Heri Retnawati (*Yogyakarta State University*)

Department of Mathematics Education  
Faculty of Mathematics and Natural Science  
Yogyakarta State University  
2012

## Preface

Assalaamu'alaikum Warahmatullaahi Wabarakatuh.

First of all, we would like to say alhamdulillah, thank to Allah SWT, the most gracious and the most merciful, therefore the proceeding of The Fourth National Conference on Mathematics Education can be finished successfully. The conference was held on 21 – 23 July, 2011 for the cooperation of Universitas Negeri Yogyakarta (Yogyakarta State University) and Indonesian Mathematical Society (IndoMS). It is an honor for us to be entrusted by IndoMS and UNY to organize The Fourth National Conference on Mathematics Education. The theme of the conference was “Building the nation character through humanistic mathematics education” and the aims were to be a forum for researchers, lecturers, teachers, students, and people who were care in mathematics education to share positive, constructive and creative ideas in relation to the development of the nation character through humanistic mathematics education.

We are very happy and proud, because we have seven invited speakers in their expertise, three invited speakers are from abroad (Prof. Christa Kaune, Germany; Prof. Isoda Masami, Japan; and Prof. Dr. Noor Azlan bin Ahmad Zanzali, Malaysia) and four invited speakers are from Indonesia (Dr. Ary Ginanjar Agustian, Prof. Jozua Sabandar, Ph.D., Prof. Dr. Sutarto Hadi, and Dr. Marsigit). We also very happy since we have numerous participants who are come from all parts of Indonesia and also from Malaysia. Alhamdulillah, there were 83 papers related to mathematics education that have been presented on parallel session of this conference.

We are very grateful to all reviewers who have been dedicated to review the articles of the proceedings. The reviewers are: Prof. Yaya S. Kusuma, M.Sc., Ph.D. (UPI Bandung), Prof. Jozua Sabandar, M.A., Ph.D. (UPI Bandung), Turmudi, M.Sc., Ph.D. (UPI Bandung), Prof. Sutarto Hadi, M.Sc., Ph.D. (UNLAM), Prof. Dr. Ahmad Fauzan (UNP), Dr. Rahmah Johar (UNSYIAH Aceh), Dr. Abdurrahman As'ari, M.A. (UM), Dr. Cholis Sa'dijah (UM Malang), Dr. Yansen Marpaung (USD Yogyakarta), Sukirman, M.Pd. (UNY), Dr. Marsigit, M.A. (UNY), Dr. Hartono (UNY), Dr. Djamilah B.W., M.Si (UNY), Dr. Sugiman (UNY), Dr. Ali Mahmudi (UNY), Dr. Agus Maman Abadi (UNY), Dr. Jailani (UNY), Dr. Dhoriva Urwatul Wutsqo (UNY) and Dr. Heri Retnawati (UNY).

The proceeding contains as many as 84 articles. The author of the article came from several institutions, namely: UNY, UTM Malaysia, UPI, UNJ, UNNES, UM, Unsyiah Kuala, PPs UNY, Sekolah Pascasarjana UPI, PPs UNJ, S2 Pengajaran Matematika ITB, UNIMED, UNHALU, UNSRI, UNRAM, Universitas Negeri Gorontalo, UNILA, UNS, Univeritas Tadulako, UIN Syarif Hidayatulloh Jakarta, STAIN Tulungagung, UII, UNISBA Bandung, USD Yogyakarta, Universitas Muhammadiyah Purworejo, STIKOM Surabaya, Universitas Muhammadiyah Bengkulu, Universitas PGRI Adi Buana Surabaya, UKSW Salatiga, Universitas PGRI Palembang, Universitas Widyadarma Klaten, STKIP Siliwangi Bandung, Universitas Veteran Bangun Nusantara Sukoharjo, STKIP Sebelas April Sumedang, SMA N 4 Tasik Malaya, Universitas Siliwangi Tasikmalaya, Universitas pelita Harapan Tangerang, SMA Lentera Harapan Lampung, UNIROW Tuban and IKIP PGRI Semarang.

We hope that the proceeding be useful, not only for the authors, but also can enrich the creative and innovative ideas that can support the advancement of mathematics education, especially in Indonesia.

Yogyakarta, May 2012  
Chairman of the Committee  
Dr. Ali Mahmudi

## CONTENTS

<b>Cover</b>				<b>i</b>
<b>Publishing Statement</b>				<b>ii</b>
<b>Paper Reviewers</b>				<b>iii</b>
<b>Preface</b>				<b>iv</b>
<b>Contents</b>				<b>v</b>
Code	Name	Institution	Title	Page
U - 1	Noor Azlan Ahmad Zanzali	<i>Faculty of Education Universiti Teknologi Malaysia Email: <a href="mailto:azanzali@utm.my">azanzali@utm.my</a></i>	Improving The Quality Of The Mathematics Education: The Malaysian Experience	M - 1
U - 2	Christa Kaune <sup>1</sup> , Edyta Nowinska <sup>2</sup>	<sup>1</sup> <i>Institut für Kognitive Mathematik, Universität Osnabrück, Germany,</i> <sup>2</sup> <i>Institute MATHESIS, Pyzdry, Poland</i>	Development Of Metacognitive And Discursive Activities In Indonesian Maths Teaching A Theory Based Analysis Of Communication Processes	M-23
U - 3	Marsigit	<i>Faculty of Mathematics and Science, Yogyakarta State University</i>	Developing The Attitude And Creativity In Mathematics Education	M-34
U - 4	Sutarto Hadi	<i>Department of Mathematics Education, Lambung Mangkurat University, Banjarmasin</i>	Developing The Nation Character Through Realistic Mathematics Education	M-65
U - 5	Masami Isoda	<i>University of Tsukuba, Japan</i>	Problem Solving Approaches in Mathematics Education as a Product of Japanese Lesson Study	M-77
P - 1	Abd. Qohar	<i>Mathematic Department, State University of Malang, Indonesia</i>	Mathematical Communication: What And How To Develop It In Mathematics Learning?	1
P - 2	Anggit Prabowo Marsigit Atmini Dhoruri	<i>Yogyakarta State University E-mail: <a href="mailto:anggit_191085@yahoo.com">anggit_191085@yahoo.com</a></i>	Improving The Understanding Of The Arithmetic Concept Through Realistic Mathematic Education (RME)	13
P - 3	Rustanto Rahardi	<i>Faculty of Science and Mathematics Malang University Jl. Semarang 5 Malang, e-mail: <a href="mailto:rustanto_r@yahoo.com">rustanto_r@yahoo.com</a></i>	Valsiner's Zone Theory As The Teachers' Zone Of Proximal Development	25
P - 4	Budi Mulyono	<i>Mathematics Education Department Sriwijaya University email: <a href="mailto:boedy_moe@yahoo.com">boedy_moe@yahoo.com</a></i>	Traditional Teaching About Angles Compared To An Active Learning Approach That Focuses On Students Skills In Seeing, Measuring And Reasoning, Including The Use Of Dynamic Geometry Software: Differences In Achievement	37
P - 5	Theresia Kriswianti Nugrahaningsih	<i>Department of Mathematics Education Widya Dharma University Klaten e-mail: <a href="mailto:kriswianti_th@yahoo.com">kriswianti_th@yahoo.com</a></i>	Using Metacognition In Learning Mathematics Toward Character Building	47
P - 6	Dasa Ismaimuza	<i>Departement of Mathematics Education Tadulako University Palu, Central Sulawesi, e- mail: <a href="mailto:dasaismaimuza@yahoo.co.uk">dasaismaimuza@yahoo.co.uk</a></i>	Creative Thinking Ability on Mathematics of Junior High School in Palu Based on School Levels	59
P - 7	Destiniar	<i>Department of Mathematics Education PGRI University of Palembang e-mail:</i>	Effect of Contextual Learning Ability Against Students Understanding Math Concepts SMP	65

		<i>destiniarpagri@yahoo.co.id</i>		
P – 8	Supriyono	<i>Department of Mathematics Education Muhammadiyah University of Purworejo</i>	Developing Mathematical Learning Device Using TTW (Think- Talk-Write) Strategy Assisted By Learning CD To Foster Mathematical Communication	73
P – 9	Nila Kesumawati	<i>Departement of Mathematics Education, PGRI University of Palembang email: nilakesumawati@yahoo.com</i>	Development Mathematical Problem Solving Problems At Junior High School	85
P – 10	Dodi Syamsuduha	<i>SMA Negeri 4 Kota Tasikmalaya e-mail: disyamsu@yahoo.com</i>	Pengaruh Pembelajaran Kooperatif Berbantuan Program <i>Geometer's Sketchpad</i> Terhadap Peningkatan Kemampuan Berpikir Kritis Matematik Siswa SMP	95
P – 11	Kms. Muhammad Amin Fauzi	<i>FMIPA Universitas Negeri Medan e-mail : amin_fauzi29@yahoo.com</i>	Peningkatan Kemampuan Koneksi Matematis Dan Kemandirian Belajar Siswa Dengan Pendekatan Pembelajaran Metakognitif Di Sekolah Menengah Pertama	109
P -12	Gelar Dwirahayu	<i>Department of Mathematics Education Faculty of Tarbiya and Teachers Tratinig State University of Islamic Syarif Hidayatullah Jakarta gelardr@yahoo.com</i>	Implementation Of Character-Building Education In Mathematics Teaching And Learning To Create Of Human Character	123
P – 13	Iis Margiyono <sup>1</sup> , Helti Lygia Mampouw <sup>2</sup>	<sup>1,2</sup> <i>Program Studi Pendidikan Matematika FKIP, <sup>2</sup>Pusat Studi Pendidikan Sains, Teknologi dan Matematika, Universitas Kristen Satya Wacana, Jl. Diponegoro 52-60 Salatiga 50711, Indonesia E-mail: h.mampouw@gmail.com</i>	Deskripsi <i>Pedagogical Content Knowledge</i> Guru Pada Bahasan Tentang Bilangan Rasional	133
P – 14	Kariyam Perdana, R.B.	<i>Department of Statistics Islamic University of Indonesia e-mail: kariyam@uii.ac.id</i>	Factor Analysis Of Ordinal Data Based On Weighted Ranking And Its Application To Reduce Perception Variables To Math Lessons Of Senior High School Student	145
P – 15	Syahrir	<i>Departement of Mathematics Education Teachers' Training College of Mataram</i>	Effects of the Jigsaw and Teams Game Tournament (TGT) Cooperative Learning on the Learning Motivation and Mathematical Skills of Junior High School Students	155
P – 16	Musthofa	<i>Department of Mathematic Education, Yogyakarta State University</i>	Some Creative And Easy Methods To Calculate A Multiplication Of Two Numbers	167
P – 17	Oktavianus Adi Nugraha <sup>1</sup> , Sundo Nurbono <sup>1</sup> , Dimas Adi Nugroho <sup>1</sup> , Handita Sari <sup>2</sup> , Kriswandani <sup>3</sup>	<i>Mathematics Education Study Program Education and Teaching Faculty Satya Wacana Christian University</i>	Effort To Improve Student Achievement In Learning Through The Development Of Function Composition Method Of Discussion On The Approach To Contextual Teaching And Learning (CTL) In Class Xi IPA 1 Salatiga Christian Senior High School 1	173
P – 18	Ilfi Norman, Zaid Zainal Abidin, Md. Nor Bakar	<i>Universiti Teknologi Malaysia</i>	Secondary School Students' Abilities Through Problem Posing Activities	187
P – 19	Kodirun	<i>Mathematics Department of</i>	Developing Students Ability To Write	199

		<i>Faculty of Mathematics and Natural Sciences of University of Haluoleo Kendari Email: kodirun_zuhry@yahoo.co.id</i>	Mathematical Proof By Polya Method	
P – 20	Yusuf Hartono	<i>Department of Mathematics Education Sriwijaya University e-mail: <a href="mailto:y.hartono@unsri.ac.id">y.hartono@unsri.ac.id</a></i>	Mathematics Learning Within Culture And Nation Character: Using Traditional Dance In Learning The Concept Of Symmetry At Grade IV Primary School	207
P – 21	Bambang Priyo Darminto	<i>Mathematics Education Department, Muhammadiyah University of Purworejo e-mail: <a href="mailto:darmintobambangpriyo@yahoo.co.id">darmintobambangpriyo@yahoo.co.id</a></i>	Developing Cultural And Character Nations Values Through Mathematics Learning	215
P – 22	Umy Zahroh	<i>Department of Mathematics Education, State Islamic College (STAIN) of Tulungagung Mayor</i>	The Influence Of Edutainment Method Towards The Mathematics' Learning Achievement Of The Sixth Grade Students Of SDN I And SDN II Tanjungsari Boyolangu Tulungagung	223
P – 23	Abdul Muin	<i>Department of Mathematics Education, Syarif Hidayatullah State Islamic University Jakarta e-mail: <a href="mailto:muinfasya@gmail.com">muinfasya@gmail.com</a></i>	The Situations That Can Bring Reflective Thinking Process In Mathematics Learning	231
P – 25	Adi Nur Cahyono	<i>Department of Mathematics, Semarang State University, Email: <a href="mailto:adinegara@staff.unnes.ac.id">adinegara@staff.unnes.ac.id</a></i>	MatriksMovie: Building The Nation Character Through Movie-Based Realistic Mathematics Education	239
P – 25	Aning Wida Yanti	<i>Department of Mathematics Education, State University of Malang <a href="mailto:aning.widayanti@yahoo.co.id">aning.widayanti@yahoo.co.id</a></i>	Learning Mathematics To Grow Metacognitive Ability In Understanding And Mathematic Problems Solving On Limit	251
P – 26	Asep Ikin Sugandi	<i>STKIP Siliwangi Bandung Email : <a href="mailto:asepikinsugandi@yahoo.co.id">asepikinsugandi@yahoo.co.id</a></i>	Developing National Character Through Mathematics Instruction Via Mathematics Instruction With Problem-Based Learning In Jigsaw Typed Cooperative Setting	263
P – 27	Darmawan <sup>1</sup> Iwan Pranoto <sup>2</sup>	<i><sup>1</sup>Teacher in Majalengka State High School 1 - Student of Master of Mathematics for Teaching, Faculty of Mathematics and Natural Sciences, Bandung Institute of Technology, Email: <a href="mailto:darma_grp@yahoo.co.id">darma_grp@yahoo.co.id</a> <sup>2</sup>Lecturer in the Math Department, Faculty of Mathematics and Natural Sciences, Bandung Institute of Technology, Email: <a href="mailto:pranoto@itb.ac.id">pranoto@itb.ac.id</a></i>	On The Teaching Of Analyzing The Effects Of Parameter Changes On The Graph Of Function	275
P – 28	Dylmoon Hidayat Ismail Daniel	<i>Department of Mathematics Education, Universitas Pelita Harapan, Tangerang email: <a href="mailto:dylmoon.hidayat@uph.edu">dylmoon.hidayat@uph.edu</a> and Sekolah Lentera Harapan, Lampung</i>	Mathematics Teachers' Performance In Teaching Using English At Secondary National Plus Schools	283

		<i>email:ismail.ladde@gmail.com</i>		
P – 29	Hapizah Trimurti Saleh	<i>Department of Mathematics Education, University of Sriwijaya Inderalaya Ogan Ilir, e-mail: hapizah_piza@yahoo.com</i>	Developing The Teaching Module Of Initial Values And Boundary Problems For Students Of Mathematics Education Program	291
P – 30	Herry Agus Susanto <sup>1)</sup> Bambang Suharjo <sup>2)</sup>	<sup>1)</sup> <i>Veteran Bangun Nusantara University of Sukoharjo</i> <sup>2)</sup> <i>Muhamadiyah University of Gresik</i> E-mail : <i>herrysanto_62@yahoo.co.id</i>	Mathematics And Mathematics Education Values In Forming Someone's Character	299
P – 31	Hongki Julie	<i>Sanata Dharma University hongkijulie@yahoo.co.id</i>	Development Guided Reinvention Principle In Pmri Approach In Use The Teacher Guide In Elementary School	311
P – 32	Iwan Gunawan <sup>1)</sup> Iwan Pranoto <sup>2)</sup>	<sup>1)</sup> <i>Student of Master of Mathematics for Teaching, Faculty of Mathematics and Natural Sciences, Bandung Institute of Technology, Email: i_gun78@yahoo.com.</i> <sup>2)</sup> <i>Lecturer in the Math Department, Faculty of Mathematics and Natural Sciences, Bandung Institute of Technology, Email: pranoto@itb.ac.id</i>	An Instruction Idea Connecting Integral Concepts In Senior High School With Irregular Area Measurement In Elementary School	321
P – 33	Kadir Eny Wulandari	<i>Department of Mathematics Education FITK, Universitas Islam Negeri Syarif Hidayatullah Jakarta e-mail: dirsal@yahoo.com</i>	The Implementation Of Multiple Intelligences Based Learning To Improve Students' Learning Activities, Response, And Learning Outcome In Mathematics	333
P – 34	Lia Kurniawati	<i>Departement of Mathematics Education, UIN Syarif Hidayatullah Jakarta</i>	Developing Mathematical Reflektive Thinki NG Skills Through Problem Based Learning	335
P – 35	Mimih Aminah Jozua Sabandar	<i>STKIP Sebelas April Sumedang e-mail: mimih.aminah@yahoo.co.id Indonesia University of Education (UPI)</i>	The Potency Of Metacognitive Learning To Foster Mathematical Logical Thinking	345
P – 36	Mujiyem Sapti Suparwati	<i>Department of Mathematics Education, Muhammadiyah University of Purworejo e-mail: saptimoedji@yahoo.com</i>	An Experiment Of Mathematics Teaching Using SAVI Approach And Conventional Approach Viewed From The Motivation Of The Students Of Sultan Agung Junior High School In Purworejo	357
P – 37	Mustamin Anggo	<i>FKIP Universitas Haluoleo Kendari</i>	The Metacognitive Process Of Teachers College Students In Solving Mathematical Problems	367
P – 38	Nyimas Aisyah	<i>Department of Mathematics Education Sriwijaya University Km. 32 Indralaya Ogan Ilir email nys_aisyah@yahoo.co.id</i>	Values Implemented By Secondary Teachers In Mathematics Problem Solving	377
P – 39	Rasiman	<i>Department of Mathematics Education, Faculty Mathematics and Natural Sciences Education IKIP PGRI Semarang</i>	Leveling Of Students Critical Thinking Abilities In Mathematics Problem Solving In Line With Gender Differences	391
P – 40	Sudirman	<i>Department of Mathematics State University of Malang</i>	Penginvestigasian Objek Fungsi Sebagai Hasil Pengkapsulan Proses: Suatu Studi	401



		e-mail : <a href="mailto:sudirman_um@yahoo.co.id">sudirman_um@yahoo.co.id</a>	Kasus Untuk NURI	
P – 41	Supratman	<i>Mathematics Education Courses And Pedagogy Faculty Of Education, University Of Siliwangi Tasikmalya</i> e-mail: <a href="mailto:Supratman_Id@yahoo.com">Supratman_Id@yahoo.com</a>	The Influence Of The Use Of E-Book And E-Learning Base In Students Achievement	415
P – 42	Tedy Machmud	<i>Department of Mathematics Education Gorontalo State University</i> e-mail: <a href="mailto:tedy_m@ung.ac.id">tedy_m@ung.ac.id</a>	Scaffolding Strategy In Mathematics Learning	429
P – 43	Tjang Daniel Chandra	<i>Department of Mathematics State University of Malang</i> e-mail : <a href="mailto:tjangdanielchandra@yahoo.co.id">tjangdanielchandra@yahoo.co.id</a>	Integrated Mathematics Teaching as an Effort to Teach Mathematics More Interesting	441
P – 44	Sri Hastuti Noer	<i>Mathematics Education Lecturer in FKIP, Lampung University</i> Email: <a href="mailto:hastuti_noer@yahoo.com">hastuti_noer@yahoo.com</a>	Character Development In Mathematics Problem-Based Learning	449
P – 45	Winda Ramadianti	<i>Yogyakarta State University</i> Email: <a href="mailto:winda.ramadianti@gmail.com">winda.ramadianti@gmail.com</a>	Improving Student's Motivation To Learning Math By Cooperative Learning Technique Make A Match	457
P – 46	Abdur Rahman As'ari	<i>Department of Mathematics Education, Faculty of Mathematics and Natural Sciences, State University of Malang</i>	Membangun Karakter Pebelajar Unggulan Melalui Pembelajaran Matematika	467
P – 47	Gaguk Margono	<i>Universitas Negeri Jakarta, Kompleks UNJ Rawamangun Jakarta</i> <a href="mailto:g_margono@yahoo.com">g_margono@yahoo.com</a>	Internal Consistency Reliability Of Instruments Measuring Students Satisfaction As An Internal Customer (Application Of Factor Analysis)	479
P – 48	Sri Subarinah	<i>Study Program of Mathematics Education, FKIP Universitas Mataram</i> Email: <a href="mailto:s.subarinah@gmail.com">s.subarinah@gmail.com</a>	Creating Joyful Atmosphere In Mathematics Learning For Elementary School Students By Implementing <i>Kopermatik</i> Aids	493
P – 49	Ali Mahmudi	<i>Department of Mathematics Education Faculty of Mathematics and Natural Science Yogyakarta State University</i> email: <a href="mailto:ali_uny73@yahoo.com">ali_uny73@yahoo.com</a>	Developing Students' Character Through Mathematics Teaching And Learning	503
P – 50	Atmini Dhoruri R. Rosnawati, Ariyadi Wijaya	<i>Department of Mathematics Education, Yogyakarta State University</i> e-mail: <a href="mailto:atmini_uny@yahoo.co.id">atmini_uny@yahoo.co.id</a>	Developing Mathematics-Students Worksheet Based On Realistic Approach For Junior High School In Bilingual Program	511
P – 51	Elly Arliani	<i>Faculty of Mathematics and Sciences, Yogyakarta State University</i> <a href="mailto:arliani_elly@yahoo.com">arliani_elly@yahoo.com</a>	Developing Teacher's Character Through Lesson Study Activities	519
P – 52	I Nengah Parta	<i>Jurusan Matematika FMIPA UM</i> Email: <a href="mailto:nengahparta@yahoo.com">nengahparta@yahoo.com</a>	Developing Mathematics Teaching Material "Investigative" for Pre-Service Mathematics Teacher	527
P – 53	Hasratuddin <sup>1</sup>	<sup>1</sup> <i>State University of Medan</i> Email: <a href="mailto:siregarhasratuddin@yahoo.com">siregarhasratuddin@yahoo.com</a>	Improving Student's Emotional Intelligence By Mathematics Learning <sup>2</sup>	539
P – 54	Ratu Ilma Indra Putri	<i>Department of Mathematics Education, Sriwijaya University</i>	Improving Mathematics Communication Ability Of Students In Grade 2 Through	547

		<i>e-mail:ratu.ilma@yahoo.com</i>	PMRI Approach	
P – 55	Cholis Sa'dijah	<i>Department of Mathematics State University of Malang e-mail: lis_sadjahi@yahoo.co.id</i>	Students' Achievement In Developing Instructional Material Of Junior High School Mathematics In English Through Implementation Of Peer Assesment In Cooperative Setting	557
P – 56	Retno Subekti	<i>Department of Mathematics Education FMIPA UNY retnosubekti@uny.ac.id</i>	Developing Students' Entrepreneurial Spirit Through The Subject Ilmu Hitung Keuangan	567
P – 57	Achmad Mudrikah	<i>Nusantara Islamic University (UNINUS) Bandung</i>	Developing Teaching Materials By Using Computer-Assisted Problem-Based Learning	575
P – 58	Yumiati	<i>Mathematics Education Studies Program, Department of Mathematics and Sciences Education Universitas Terbuka e-mail: yumi@ut.ac.id</i>	The Implementation of Generative Learning With Open-Ended Approach to Improve Mathematics Student Achievements On Muhammadiyah 44 Pamulang	585
P – 59	Kadir	<i>Department of Mathematics Education FITK, Universitas Islam Negeri Syarif Hidayatullah Jakarta Jl. H. Juanda 95, e-mail: dirsal@yahoo.com</i>	A Pedagogical Value From Mathematical Mistakes	597
P – 60	Toto Subroto	<i>Indonesia University of Education Magister Student's Dr. Setiabudhi 229 Bandung, email: totosubroto@gmail.com</i>	The Use Of Cabri 3D Software As Virtual Manipulation Tool In 3-Dimension Geometry Learning To Improve Junior High School Students' Spatial Ability	609
P – 61	Turmudi	<i>Mathematics Education Department of UPI Email: turmudi_ah@yahoo.com Dwi Haryanto SMP Lab School of UPI, Bandung</i>	Creating And Solving Model Of Linear Equation Through The Balance At Junior Secondary Class	619
P – 62	Yansen Marpaung	<i>Department of Mathematics Education, University of Sanata Dharma, e-mail: yansenmarpaung@gmail.com</i>	PMRI and Metacognitive Scaffolding	631
P – 63	Ary Woro Kurniasih	<i>Department of Mathematics Semarang State University Kampus Sekaran, Semarango, e- mail:aryworo@staff.unnes.ac.id</i>	Identification Critical Thinking Stages Of Students' Mathematics Education Study Program FMIPA UNNES For Solving Mathematics Problems	639
P – 64	Evi Suharyanti <sup>1</sup> , Theofelus Galih S. <sup>1</sup> , Margi Rahayu <sup>1</sup> , Kriswandani <sup>2</sup>	<i>S1 faculty of Mathematic majoring teaching qualification and knowledge Satya Wacana Christian University Email : kriswandani@staff.uksw.edu</i>	Reforming Mathematic Through The Concept Of <i>Cooperative Learning</i> By Using The Technique Think-Pair-Share Focusing On Cube And Cuboid To Improve The Study Result And Activity Of Students From Banyubiru 1 State Middle School Class Of Viiii In Semarang District On Their Second Semester Year Of 2010/2011	651
P – 65	Iwan Junaedi	<i>Department of Mathematics Education, Semarang State University Email: iwan_jun@staff.unnes.ac.id</i>	Improving The Quality Of Learning In Geometry Transformation Course To Encourage Students Learning Independence Through The Lesson Study Approach	663
P – 66	Lathiful Anwar	<i>Universitas Negeri Malang</i>	Supporting Student's Thinking In Addition Of Fraction From Informal To More	675

			Formal Using Measuring Context	
P – 67	Dian Armanto Max Stephens	<i>Department of Mathematics Education, The State University of Medan and The University of Melbourne (Australia)</i> e-mail: <i>armanto_dian@yahoo.com ; m.stephens@unimelb.edu.au</i>	Developing Learning Trajectory For Enhancing Students' Relational Thinking	689
P – 68	Anton Noornia	<i>Jurusan Matematika FMIPA Universitas Negeri Jakarta</i>	Cooperative Learning With Metacognitive Approach To Enhance Mathematical Critical Thinking And Problem Solving Ability, And The Relation To Self-Regulated Learning	711
P – 69	Hardi Suyitno	<i>Jurusan Matematika FMIPA Universitas Negeri Semarang</i> <i>hhardisunnes@yahoo.com</i>	Value's of Mathematics Education and Citizenship Education	723
P – 70	Warli	<i>Departement of Mathematics Education, UNIROW Tuban</i> Email: <i>warli66@gmail.com</i>	Improving Students' Creativity In The Proving The Validity Of Arguments Through Learning Strategy "What's Another Way"	737
P – 71	Abdulloh Jaelani	<i>Department of Mathematics Educatio, University of PGRI Adi Buana Surabaya</i> <i>abdjae@yahoo.co.id</i>	Building Character Education In Learning Mathematic	749
P – 72	Supriyono	<i>Department of Mathematic Education, Muhammadiyah University of Purworejo</i>	Developing Mathematical Learning Device Using Think Talk Write Strategies Assisted Learning CD To Forcer Mathematical Communication	759
P – 73	Dina Ladysa, Sindi Amelia, Bobbi Rahman	<i>Study Programme of Mathematics Education, Postgraduate Programme, Indonesia University of Education (UPI)</i> Email : <i>smansa.dina@yahoo.com, achacia88@yahoo.com, bob_by04@yahoo.co.id</i>	Pre-Service Teachers' Views Toward Mathematics Anxiety	771
P – 74	Djamilah Bondan Widjajanti	<i>Department of Mathematics Education Yogyakarta State University</i> Email : <i>Dj_bondan@yahoo.com</i>	Managing Students' Math-Anxiety Through Humanistic Mathematics Education	777
P – 75	Euis Setiawati	<i>Mahasiswa S3 Program Studi Pendidikan Matematika Sekolah Pascasarjana Universitas Pendidikan Indonesia</i>	Hambatan Epistemologi ( <i>Epistemological Obstacles</i> ) Dalam Persamaan Kuadrat Pada Siswa Madrasah Aliyah	787
P – 76	Farida Nurhasanah	<i>Department of Mathematics Education, Sebelas Maret University</i> email: <i>f4121da_n@yahoo.com</i>	Junior High School Students' Abstraction In Learning Geometry	801
P – 77	Kadir	<i>Department of Mathematics Education at Haluoleo University, Kendari</i>	The Use Of Coastal Potency In Learning Mathematics To Enhance Social Skills Of Junior Secondary School Students	813
P – 78	Nurina Happy, Endang Listyani	<i>Universitas Negeri Yogyakarta</i>	Improving The Mathematic Critical And Creative Thinking Skills In Grade 10 <sup>th</sup> SMA Negeri 1 Kasihan Bantul On Mathematics Learning Through Problem-Based Learning	823
P – 79	Rahmah Johar	<i>Department of Mathematics</i>	Development Of Learning Material Of	835

		<i>Education, Syiah Kuala University Banda Aceh e-mail: rahmah_johar@yahoo.com</i>	<i>Pakem-Plus For Mathematics Lesson At Elementary School</i>	
P – 80	Risnanosanti	<i>Department of Mathematics Education, Muhammadiyah University of Bengkulu Bali Street, email: rmosanti@yahoo.com</i>	<i>The Effect Of Mathematics Self-Efficacy Toward Mathematical Creative Thinking Ability Of SMA Students In Bengkulu City</i>	847
P – 81	Rusgianto H.S	<i>Mathematics Education Department, Faculty of Mathematics and Sciences State University of Yogyakarta</i>	<i>The Relationship Between Reasoning, And Emotional Intelligence In Social Interaction With Mathematics Achievement</i>	857
P – 82	Yani Ramdani	<i>Universitas Islam Bandung</i>	<i>Enhancement Of Mathematical Reasoning Ability At Senior High School By The Application Of Learning With Open Ended Approach</i>	865
P – 83	Kamaliyah Rita Novita	<i>Bilingual Master Program on Mathematics Education Sriwijaya University, Indonesia Padang Selasa 524 Palembang, email: kamaliyah_kamaliyah@yahoo.co.id</i>	<i>Guided Reinvention In Proving The Sum Of The Angles Of Triangle</i>	881
P – 84	Sanni Merdekawati, Himmawati Puji Lestari	<i>Universitas Negeri Yogyakarta</i>	<i>Developing Student Worksheet In English Based On Constructivism Using Problem Solving Approach For Mathematics Learning On The Topic Of Social Arithmetics</i>	895
P – 85	M.J. Dewiyani S	<i>Undergraduate Program of Information System, STIKOM Surabaya email : dewiyani@stikom.edu</i>	<i>Solving Problems In Mathematics Using The Personality Types As A Means Of Developing The Nation's Character</i>	905
P – 86	Edy Tandililing	<i>Jurusan PMIPA FKIP UNTAN Pontianak</i>	<i>The Enhancement of Mathematical Communication and Self Regulated Learning of Senior High School Students Through PQ4R Strategy Accompanied by Refutation Text Reading</i>	917