

DAFTAR PUSTAKA

- Aiken, L. (1976). Update on attitudes and other affective variables in learning mathematics. *Review of Educational Research*, 46, 293-311.
- Aiken, L. R. & Dreger, R. M. (1961). The effect of attitudes on performance in learning mathematics. *Journal of Educational Psychology*, 52, 19-24.
- Alibali, M. (2005). *Understanding of Symbols at the Transition from Arithmetic to Algebra: the Equal Sign and Letters as Variables*. Washington DC: Bookings Institution, Falk Auditorium.
- Arikunto, S. (2012). *Dasar Dasar Evaluasi Pendidikan (Edisi 2)*. Jakarta: Bumi Aksara.
- Ashcraft, M. & Kirk, E. P (2001) The relationships among working memory, math anxiety, and performance. *Journal of Experimental Psychology: General*, 130 (2), 24-237
- Arem, C.A. (2003). *Conquering math anxiety*. 2nd Edn., Brooks/Cole-Thomson learning Pacific Grove.
- Betz, N. E. (1978). Prevalence, distribution, and correlates of math anxiety in college students. *Journal Of Counseling Psychology*, 25 (5), 441-448.
- Bessant, K.C. (1995). Factors associated with types of mathematics anxiety in college students. *Journal for Research in Mathematics Education*, vol 26 (4), 327-345.
- Booth, L. R. (1984). *Algebra: Children's strategies and errors*. Windsor, U.K., NFER-Nelso
- Blazer, C. (2011). *Strategies for reducing Mathematics anxiety*. Information Capsule: Research Services 1102 (1), -6.
- Brousseau, G. (1997). *Theory of Didactical Situation in Mathematics*. Dordrecht : Kluwer Academic Publisher.
- Brousseau, G, & Warfield, V. (2014). *Didactical situation in Mathematics Education*. *Encyclopedia of Mathematics Education*. Springer

Refi Elfira Yuliani, 2019

**ANTISIPASI KECEMASAN MATEMATIKA DALAM PEMBELAJARAN KONSEP ALJABAR
DI SEKOLAH MENENGAH PERTAMA DARI PERSPEKTIF THEORY OF DIDACTICAL SITUATION**
Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Byrd, P.G (1982). A descriptive study of mathematics anxiety: Its nature and antecedents. *Dissertation Abstracts International*, 43, (8-A), 2583. (University Microfilms No. 8300843)
- Camacho, M.; Hernandez, J. & Socas, M.M. (1995). Conception and attitudes of future secondary school teachers about mathematics and its teaching: a descriptive study. *Science and mathematics teacher education in Spain and Portugal*, pp. 81-97
- Carbanero Martin, M.A; Martin Anton, L.J & Arranz, E. (1998). Expectations concerning mathematics of students of the first cycle of secondary education. *Revista de Psikodidactica*, ns 6
- Carpenter, T.P., Corbit, M.K., Kepner, H.S., Linguist, M.M., & Reyes, R.E. (1981). National assessment. In E. Fennema (Ed), *Mathematics education research: implication for the 80's* , 22-40. Alexandria, V.A: Association for Supervision and Curriculum Development.
- Clements, D.H & Sarama, J. (2009). *Learning and teaching early math the learning trajectories approach*. New York: Routledge.
- Cockcroft, W. H. (1982). *Mathematics counts* . London: Her Majesty's Stationery Office
- Cubillo, C & Ortega, T. (2002). Influence of teaching model on student's opinion/attitudes towards mathematics. *UNO Revista de Didactica de Las Mathematics*. Vol 31, 57-72
- Dahlan, J.A. (2011). *Analisis kurikulum matematika*. Universitas Terbuka
- De Lange, J. 2004. *Mathematical Literacy for living from OECD-PISA Perspective*. Paris. OECD-PISA
- Dutton, W. H. (1954). Measuring attitudes toward arithmetic. *Elementary School Journal*, 54, 24-31.
- Dutton, W. H. & Blum, M. P. (1968). The measurement of attitudes toward arithmetic with a Likert-type test. *Elementary School Journal*, 68, 259-26
- DZulfikar, A. (2016). Pre-service mathematics teacher's math anxiety. *Jurnal Matematika dan Pendidikan Matematika*. Vol 1 No 1.
- Eniko, S.M. (2013). Didactic teaching strategies for successful learning. *Pedota*. 3(3). Piliscsaba (Magyarország).

Refi Elfira Yuliani, 2019

**ANTISIPASI KECEMASAN MATEMATIKA DALAM PEMBELAJARAN KONSEP ALJABAR
DI SEKOLAH MENENGAH PERTAMA DARI PERSPEKTIF THEORY OF DIDACTICAL SITUATION**
Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Fennema, E & Sherman, J. (1976). Fennema-Sherman Mathematics Attitudes Scales: instrument designed to measure attitudes toward mathematics, toward the learning of mathematics by females and males. *Journal for Research in Mathematics Education*. Vol 7(1), 324-326
- Fennema, E & Sherman, J. (1978). Sex-related differences in mathematics achievement and related factors: a further study. *Journal Research in Mathematics Education*. Vol 9 (3), 189-203
- Finlayson, M. (2014). Addressing math anxiety in the classroom. *Improving School SAGE*. Vol 17(1), 99-115
- Fiore, Greg. (1999). Math abused students : Are We prepared to teach them ? *Math Teacher*. 92 (5), 403-406
- Forgas, J. P. (2001). Introduction: Affect and social cognition. In J. P. Forgas (Ed.), *Handbook of affect and social cognition* (pp. 1-23). Mahwah, NJ.: Erlbaum
- Gairín, J. (1990). *Las actitudes en educación. Un estudio sobre la educación matemática [Attitudes in education: A study of mathematics education]*. Barcelona: Boixareu Universitaria.
- Gravemeijer, K. & Cobb, P. 2006. Design Research From a Learning Design perspective. In Van Akker, et. al. (Eds), *Educational Design Research* (pp. 45-85). London: Routledge.
- Gladstone, R., Deal, R., & Drevdahl, J. E (1960). Attitudes toward mathematics. In M. E. Shaw & J. M. Wright (1967). *Scales for the measurement of attitudes*. NY: McGraw Hill. 237-242.
- Haladyna, T.; Shaughnessy, J. & Shaughnessy, J. M. (1983). A casual analysis of attitude toward mathematics. *Journal for Research in Mathematics Education*, vol. 14(1), 19-29. USA
- Hannula, M.S. (2012). Exploring new dimension of mathematics related affect: embodied and social theories. *Res Math Educ*, vol 21 (1): 33-46
- Hannula, M.S. (2014). Affect in Mathematics education. *Encyclopedia of Mathematics Education*. Springer

Refi Elfira Yuliani, 2019

**ANTISIPASI KECEMASAN MATEMATIKA DALAM PEMBELAJARAN KONSEP ALJABAR
DI SEKOLAH MENENGAH PERTAMA DARI PERSPEKTIF THEORY OF DIDACTICAL SITUATION**
Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Haylock, D. (2003). *Mathematics explained for primary teacher*. 2nd Edition: Paul Chapman
- Hernandez, J.; Palarea, M.M. & Socas, M.M. (2001). Analysis of the conception, beliefs, and attitudes towards mathematics of students beginning the primary education teacher diploma course. The role of teaching material. Department de de Análisis Matemático. Universidad de la Laguna
- Hembree, R. (1990). The Nature, effect, and relief of mathematics anxiety. *Journal for research in mathematics education*, 21, 33-46
- Hidayanto, dkk. (2017). Transisi dari berpikir aritmetis ke berpikir aljabaris. Pendidikan Matematika Pascasarjana Universitas Negeri Malang. Tersedia online pada <http://docplayer.info>
- Hilton, P. (1980). Math Anxiety: Some suggested causes and cures : Part 1. The Two – Year College Mathematics Journal, 11(3), 174-188.
- Hudoyo, H. (1988). *Mengajar Belajar Matematika*. Depdiknas: Jakarta.
- Ignacio, N.G., Nieto, L.J.B and Barona, E.G. (2006). The affective domain in mathematics learning. *International Electronic Journal of Mathematics Education*. Vol 1 (1), 16-32.
- Jackson, C.D., & Leffingwell, R.J. (1999). The role of instructors in creating math anxiety in students from kindergarten through college, *Mathematics Teacher*, 92(7), 583-586
- Kennedy, L.M. & Tipps, S. (1994). *Guiding children's learning of mathematics*, 7th ed. Belmont, CA: Wadsworth
- Kieran, C. (2004). Algebra Thinking in Early Grade: What Is It ?. *The Mathematics Educator*. 8 (1) : 139-151
- Kilpatrick, J., Swafford, J., & Findell, B. (Eds.). (2001). *Adding it up: Helping children learn mathematics*. Washington, DC: National Academy Press.
- Kogelman, S., & Warren, J. (1978). *Mind over math*, New York: McGraw-Hill.
- Krismanto, A. (2009). Kapita selekta pembelajaran aljabar di kelas VII SMP. Pusat Pengembangan dan Pemberdayaan Pendidikan dan Tenaga Kependidikan.

Refi Elfira Yuliani, 2019

**ANTISIPASI KECEMASAN MATEMATIKA DALAM PEMBELAJARAN KONSEP ALJABAR
DI SEKOLAH MENENGAH PERTAMA DARI PERSPEKTIF THEORY OF DIDACTICAL SITUATION**
Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Lazarus, M. (1974). Mathepobia: Some personal speculations. *National Elementary Principal*, 53, 16-22.
- Levine, G. (1995). Closing the gender gap: Focus on mathematics anxiety. *Contemporary Education*, 67(1), 42-45
- Leder, G.C, & Forgaz, H.J. (2003). Measuring mathematical beliefs and their impact on the learning of mathematics : A new approach. In *Beliefs : A Hidden Variable in mathematics education*. Kluwer Academic Publisher
- Leonard. (2008). *Pengaruh Konsep Diri, Sikap Siswa pada Matematika dan Kecemasan Siswa Terhadap Hasil Belajar Matematika* (Survei pada SMP di Wilayah DKI Jakarta), Universitas Indraprasta PGRI
- Linchevski, L. (1995). Algebra with numbers and arithmetic with letters: a definition of prealgebra. *Journal of Mathematical Behavior*, 14(1), 113–120.
- Linchevski, L., & Herscovics, N. (1996). Crossing the cognitive gap between arithmetic and algebra: operating on the unknown in the context of equations. *Educational Studies in Mathematics*, 30(1), 39–65.
- Ma, X. (1999). A Meta-analysis of relationship between anxiety toward mathematics and achievement in mathematics. *Journal for research in mathematics education*, 30, 121-134
- Manno, G. (2006). Embodiment and a-didactical situation in teaching –learning of perpendicular straight lines concepts. *Doctoral thesis*. Departement of didactic mathematics Comenius University Bratislava.
- Martinez, J. (1987). *Preventing math anxiety a prescription*. *Academic Therapy*, 23, 117-125.
- Math power. (2016). Do you have math anxiety? A Self test. Tersedia online pada <http://www.mathpower.com/anxtest.htm>
- McKee, D. K. (2002). Reducing math anxiety through teaching and learning Styles. *Master of Education Thesis*. Weber State University.
- McLeod, D.B. (1992). Research on affect in mathematics education: reconceptualization. In: *Grouws DA (ed) Handbook of research on mathematics learning and teaching*. Macmillan. New York
- Miller, L.D., & Mitchell, C.E. (1994). Mathematics anxiety and alternative methods of evaluation. *Journal of Instructional of Psychology*, 21, 353-358

Refi Elfira Yuliani, 2019

**ANTISIPASI KECEMASAN MATEMATIKA DALAM PEMBELAJARAN KONSEP ALJABAR
DI SEKOLAH MENENGAH PERTAMA DARI PERSPEKTIF THEORY OF DIDACTICAL SITUATION**
Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Minato, S. (1983). Some mathematical attitudinal data on eight grade students in Japan measured by semantic differential. *Educational Studies in Mathematics*, vol 4 (1), 19-54. New York
- Yusof, Y. (1994). Changing attitudes to mathematics through problem solving. In J. P. Da Ponte & J.F. Matos (eds.), *Proceedings of 18th Annual Meeting of International Group for the Psychology of Mathematics Education (PME)*. Vol I, 401 -409. Lisbon.
- Naidoo, K. (2009). *An Investigation of Learners' Symbol Sense and Interpretation of Letters in Early Algebraic Learning*. Johannesburg: University of the Witwatersrand.
- Peker, M. (2009). Pre-Service Teachers' Teaching Anxiety about Mathematics and Their Learning Styles. *Eurasia Journal of Mathematics, Science, & Technology Education*, 5 (4), 335-345.
- Plake, B. S. & Parker, C. S. (1982). The development and validation of a revised version of the Mathematics Anxiety Rating Scale. *Educational and Psychological Measurement*, 42, 551-557.
- Perry, A.B. (2004). Decreasing math anxiety in college student. *College Student Journal* 38 (2): 321
- Popham, W.J. (1996). *Classroom Assessment*. Boston
- Polya, G. (1957). *How to Solve it: a new aspect of mathematical method*. Princeton University Press. Princeton
- Prahmana, R.C.I. (2017). *Design Research (Teori dan Implementasinya: Suatu Pengantar)*. Depok. PT RajaGrafindo Persada
- Preis, C., & Biggs, B. T. (2001) Can instructors help learners overcome math anxiety? *ATEA Journal*, 28(4) 6-10.
- Puteh, M. (2002). Qualitative research approach toward factors associated with mathematics anxiety. *Proceeding of the 3rd International Mathematics Education and Society Conference, (MESC'02)*, Centre of Research in Learning Mathematics, Copenhagen, pp: 1-5
- Quilter, D. & Harper, E. (1988). Why we didn't like mathematics, and why we can't do it. *Educational research*, 30, 121-134.

- Radford, L. (2008). Theories in mathematics education: A brief inquiry into their conceptual differences. *ICMI 11 Survey team 7: The notion and role of theory in mathematics education research*. Working paper. Tersedia online pada : <http://www.laurentian.ca/educ/lradford/>
- Richardson, F.C., & Suinn, R.M. (1972). The mathematics anxiety rating scale: Psychometric data. *Journal of Counseling Psychology*, 19 (6), 551-554.
- Seah, W. T., & Wong, N. Y. (2012). Thematics issue on ‘Value in East Asian Mathematics Education-The Third Wave’. Editorial *ZDM Mathematics Education*, 44, 1-2.
- Satake, E & Amato, P.P. (1995). Mathematics anxiety and achievement among Japanese elementary school students. *Educational and Psychological Measurement*, 55, Issue 6. 1000-1007
- Scoenfeld, AH. (1985). *Mathematical problem solving*. Akademik San Diego
- Siroj, Rusdy A. (2003, September). Kecemasan matematika (*mathematics anxiety*) dan hubungannya dengan prestasi matematika. *Majalah MASA* . UMP 13 (10), 1-9.
- ScienceDaily. (2009). Six out of 10 university students have math anxiety, Spanish Study Finds, 2 April . Tersedia online pada <http://www.sciencedaily.com>
- Suan, J .S. (2014). Affecting underachievement in mathematics. *Proceedings of the global summit on education GSE 2014*. Kualalumpur. Malaysia
- Supriatna, T. (2017). Local instruction theory dalam PMR untuk menumbuhkan kemampuan berpikir logis, berpikir aljabar, dan disposisi matematis siswa SMP. *Dissertasi*. Bandung: SPS UPI
- Smith, M.R (2004). Math anxiety: Causes, effect and preventive measures. *Thesis*. Liberty University
- Skemp, R. (1971). *The psychology of mathematics*. Baltimore, MD: Penguin Books.
- Suratno, T. (2016). Didaktik dan didactical design research. Dalam D, Suryadi, E. Mulyana, T. Suratno, D. A. K Dewi, dan S.Y Maudy (Eds)., *Monograf Didactical Design Research*. Bandung : Rizki Press.
- Suryadi, D. (2005). Penggunaan pendekatan pembelajaran tidak langsung serta pendekatan gabungan langsung dan tidak langsung dalam rangka meningkatkan kemampuan berpikir matematika tingkat tinggi siswa SLTP. Bandung: SPS UPI

Refi Elfira Yuliani, 2019

**ANTISIPASI KECEMASAN MATEMATIKA DALAM PEMBELAJARAN KONSEP ALJABAR
DI SEKOLAH MENENGAH PERTAMA DARI PERSPEKTIF THEORY OF DIDACTICAL SITUATION**

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Suryadi, D. (2013). Didactical Design Research (DDR) dalam pengembangan pembelajaran Matematika. *Makalah Seminar Nasional Matematika dan Pendidikan Matematika STKIP Siliwangi Bandung*.
- Suryadi, D. (2016). Didactical Design Research (DDR) : Upaya membangun kemandirian berpikir melalui penelitian pembelajaran. Dalam D. Suryadi, E. Mulyana, T. Suratno, D.A.K Dewi, dan S.Y. Maudy (Eds.), *Monograf Didactical Design Research*. Bandung: Rizqi Press.
- Stacey, K. 2012. *The transition from arithmetic thinking to algebraic thinking*. (Online), (k.stacey@unimelb.edu.au.), diakses 14 Januari 2012.
- Strawderman, V. (2004). Math anxiety model. *Disertasi*. Tersedia Online pada <http://www.mathgoodies.com>.
- Tapia, M and Marsh, G.E. (2004). An Instrument to measure mathematics. *Academic Exchange Quartely*, 8(2), 16-21
- Tobias, S. (1978). *Overcoming math anxiety*. New York: Norton.
- Tobias, S., 2& Weissbrod, C. (1980). Anxiety and mathematics: An update. *Harvard Educational Review*, 50(1), 63-70.
- Thiagarajan, S., Semmel, D.S., & Semmel, M.I. (1974). *Instructional Development for Training Teachers of Exceptional Children*. Minneapolis, Minnesota: Leadership Training Institute/Special Education, University of Minnesota
- Wigfield, A and Meece, J. L. (1988). Math anxiety and secondary school students. *Journal of Education Psychology*. Vol: 80, 210-216. American Psychology Association.
- Wijaya, A. (2016). Aljabar : Tantangan beserta pembelajarannya: *Jurnal Gantang. Pendidikan Matematika FKIP-UMRAH*, 1(1)
- Whitley, T.W (1979). The effects of individualized instruction on the attitudes of middle school pupils. *Journal of Educational Research*. Washington, pp. 188-193.
- Wilson, S. (2009). "Better You Than Me": Mathematics Anxiety and bibliotherapy in Primary Teacher Professional Learning. Dalam Hunter, R., Bicknell, B. & Burgess, T. (Eds.). *Crossing divides: Proceedings of the 32nd annual conference of the Mathematics Education Research Group of Australasia (Volume 2)* (hlm. 603-610). Palmerston North, NZ: MERGA.

Refi Elfira Yuliani, 2019

**ANTISIPASI KECEMASAN MATEMATIKA DALAM PEMBELAJARAN KONSEP ALJABAR
DI SEKOLAH MENENGAH PERTAMA DARI PERSPEKTIF THEORY OF DIDACTICAL SITUATION**
Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Wolfe, P.; Ponte, J.; Becker, A. & Fennema, E. (1980). Sex differences in high school students causal attributions of performance in mathematics. *Journal for Research in Mathematics Education*, 11 (5), 356-366.
- Van de Walle, J. A., Karp, K.S., & Bay-Williams, J. M. (2013). *Elementary and middle school mathematics. Teaching developmentally*. New Jersey: Pearson.
- Wu, H. (2009). *From Arithmetic to Algebra*. Slightly edited version of a presentation at the University of Oregon, Eugene, OR, Feb
- Yuliani, R.E. (2010). Pengaruh penggunaan PMRI terhadap tingkat kecemasan matematika (Math Anxiety) siswa sekolah menengah pertama. *Jurnal pendidikan Pascasarjana Universitas Sriwijaya Edisi Khusus*
- Yuliani, R E. (2010). Pengaruh penggunaan PMRI terhadap tingkat kecemasan matematika (Math Anxiety) siswa sekolah menengah pertama. *Jurnal pendidikan Pascasarjana Universitas Sriwijaya vol Edisi Khusus*
- Yuliani, R.E., Suryadi, D., & Dahlah, J.A. (2018). Hypotetical learning trajectory to anticipate mathematics anxiety in algebra learning, based on the perspective of didactical situation. *IOP. Journal of Physics*
- Zakaria, E & Nordin, N.M. (2008). The effect of mathematics anxiety on matriculation students as related to motivation and achievement. *Eurasia Journal of Mathematics, Science, & Technologi Education*, 2008, 4(1), 27-30