Altiparmak, K.(2014) Impact of computer animations in cognitive learning differentiation. *International Journal of Mathematical Education in Science and Technology, 45(8), 1146-1166.*

Arcavi, A. (2003). *The Role of Visual Representations in the Learning of Mathematics.* Educational Studies in Mathematics, 52, 215-241.

Artique, M. (1998). Teaching and learning elementary Analysis: What can we learn from didactical research and curriculum evolution?*, In Proceedings of First Mediterranean Conference on Mathematics G. Makridis, 207 – 219, Nicosia, Cyprus.*

Ball, L. D., Thames, H. M, and Phelps, G. (2008). Content Knowledge for Teaching: What

Makes It Special? Journal of Teacher Education, 389-407.

Berry, J. S., & Nyman, M. A. (2003). Promoting students’ graphical understanding of the calculus. *Journal of Mathematical Behaviour*, *22*, 481- 497.

Biza, I., Christou, C. and Zachariades, T.: 2008, Student perspectives on the relationship between a curve and its tangent in the transition from Euclidean Geometry to Analysis*, Mathematics Education*, 10: 1, 53 — 70.

Boyer, C. (1969), The history of the calculus and its conceptual development. New

York, Dover publications.

Christou, C., Pitta-Pantazi, D., Souyoul, A., Zachariades, T. (2005). *The Embodied, Proceptual, and Formal Worlds in the Context of Functions.* Canadian Journal of Science, Mathematics and Technology Education, 5:2, pp.241-252

Cottrill, J., Dubinsky, E., Nichols, D., Schwingendorf, K., Thomas, K., & Vidakovic, D.

(1996), Understanding the limit concept: Beginning with a coordinated

process schema. Journal of Mathematical Behavior, 15, 167-192.

Cornu, B. (1991). *Limits.* In D. Tall (Ed.), Advanced Mathematical Thinking, pp. 153-166, Dordrecht: Kluwer

Edwards, C. H. (1979), The historical Development of the calculus. Springer –

Verlag, New York.

Elia, I., Gagatsis, A., Panaura, A., Zachariades, T. & Zoulinaki, F. (2009). Geometric and Algebraic Approaches in the concept of limit and the impact of the didactic contract. *International Journal of Science and Mathematics Education*, 7, 765-790.

Fischbein E., Jehiam R., and Cohen D. (1995). The concept of irrational numbers in high- school students and prospective teachers. Educational Studies in Mathematics 29, 29-44.

Furinghetti F., & Domingo P., (1991). The construction of a didactic itinerary of calculus starting from students’ concept images (ages 16-19). International Journal of Mathematical Education in Science and Technology 22(5), 719-729.

Gianakoulias., E., Sougioul, A. & Zachariades, T. (2007). Students’ thinking about fundamental real numbers properties. Proceedings of the 5th Conference of European Research in Mathematics Education (CERME), 416-425. Larnaca, Cyprus. Available at: <http://ermeweb.free.fr/CERME5b/WG9.pdf>

Metaxas N. (2007). Difficulties on understanding the indefinite integral. In Woo, J. H., Lew, H. C., Park, K. S. & Seo, D. Y. (Eds.). Proceedings of the 31st Conference of the International Group for the Psychology of Mathematics Education, Vol. 3, pp. 265-272. Seoul

Orton, A. (1983). Students’ understanding of integration & Differentiation,

Educational Studies in Mathematics”, 14, 1-18, 235- 250.

Pinto, M. & Tall,D. (2002) Building formal mathematics on visual imagery: a case study and a theory. For the Learning of Mathematics, 22 ,2-10.

Robert, A.(1982). “L’Acquisition de la notion de convergence des suites numériques dans Enseignement Supérieur, Recherches en Didactique des Mathematiques” vol. no 3, 307-341.

Sierpinska, A. (1987). Humanities students and epistemological obstacles related

to limits. Educational Studies in Mathematics, 18 , 371-397.

Shulman, D. (1986). Those who understand: Knowledge growth in teaching. Educational

Researcher, 15, 4-14.

Shulman, D. (1987). Knowledge and teaching: Foundations of the new reform.

Harvard Educational Review*,* 57(1), 1-22.

Tall, D. (1986). “A graphical approach to integration and the fundamental theorem”.

Mathematics Teaching, 113, 48-51.

Tall, D. (1991). *Intuition and rigour: the role of visualization in the Calculus.* In

Visualization in Teaching and Learning Mathematics (ed. Zimmermann &

Cunningham), Mathematical Association of America, Notes No. **19**, 105– 119.

Tall,D. (2004) Building Theories: The three world of mathematics’ *For the learning of*

*mathematics, vol. 24,σελ 29~32*

Tall, D. & Schwarzenberger, R. L. E. (1978) . Conflicts in the learning of real numbers

and limits. Mathematics Teaching, 83, 44-49.

Tall, D. O., Vinner, S. (1981) ‘Concept Image and Concept Definition in Mathematics with particular reference to Limits and Continuity’, *Educational Studies in Mathematics, 12*, 151–169.

Vinner, S. (1991). ‘The role of definitions in the teaching and learning of mathematics’, In D. Tall (Ed.), *Advanced Mathematical Thinking* (pp. 65-81). Dordrecht, The Netherlands: Kluwer Academic Publishers.

Φιλίππου Γ., Χρίστου Κ. (1995 ). Διδακτική των Μαθηματικών, Εκδόσεις Δαρδανός,

Αθήνα