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Creative Mathematics Education

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ABSTRACT

Creativity and critical thinking are the core values of science. Since mathematics is its primary language, the student of mathematics must imbibe and consolidate them. Critical thinking is consolidated in the critique of current mathematics and its foundations, creativity in the construction of a mathematical space or system. Therefore, the student of mathematics must go through the twists and turns of the critique-rectification of current mathematics and its foundations which in this paper focuses on the real and complex number systems that results in the construction of the contradiction-free new real number system and the complex vector plane. Since this is an expository paper on creative education much of the content is quoted from the Author's previous works.

KEYWORDS

Adjacent Decimals; Axioms; Banach-Tarski Paradox; Russell Paradox; Creativity; Critical Thinking; Dark Number; Decimal Integer; Goldbach's Conjecture; G-Limit; G-Norm G-Sequence; Lexicographic Ordering; Recurring 9s; Self-Reference; Vacuous Concept; Fermat's Last Theorem

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