**Title :** Sequences in Pythagorean Triples

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# ABSTRACT

*This independent study explores the relationship between numerical sequences and the Pythagorean formula by applying Martin's (1875)* Pell-type formula to the Fibonacci sequence. The results show that the formula is not limited to Pell sequences, but reflects the Fibonacci sequences. Moreover, We give an example showing that the formula can not be applied to some sequences.*

*This study establishes a structured method for generating Pythagorean numbers and clarifies the connection between number theory and geometry.*

*A. Martin, Rational Right Angled Triangles Nearly Isosceles, The Analyst, vol. 3, no. 2, pp. 47-50, 1876

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