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Preliminary Results of Pythagorean N-Tuples

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Abstract

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Abstract

This presentation will introduce the idea of extending the Pythagorean Theorem in higher dimensions. First, I will highlight and recognize key patterns of primitive Pythagorean Triples by examining visual and algebraic representations. I will then present key findings and questions surrounding the idea of a Pythagorean quadruple, quintuple, and n-tuple. Lastly, I will propose different branches of exploration that will be researched in the coming months.