

David Terr

Some Interesting Infinite Families of Primitive Pythagorean Triples,
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Abstract

In this paper we investigate families of primitive Pythagorean triples of the form (a, b, c) , where $mc - nb = t$, $mc - na = t$, or $mb - na = t$ for some fixed positive coprime integers m and n , and t a fixed nonzero integer. A few of these cases are especially interesting since the solutions may be simply written in terms of Fibonacci and Lucas numbers.