## Amitabha Tripathi,

On Pythagorean Triples Containing a Fixed Integer,
Fibonacci Quart. 46/47 (2008/2009), no. 4, 331-340.


#### Abstract

For a given positive integer $n$, we determine explicit formulas for the number of occurrences of $n$ as a part of a Pythagorean triple, and also as a part of a primitive Pythagorean triple. We also determine the least positive integer that is a part of at least $n$ such primitive triples and obtain several conditions that help in characterizing the analogous case for all triples.


