Neville Robbins On sums of three squares, Fibonacci Quart. **44** (2006), no. 1, 71–72.

Abstract

It is known that (1) if the prime $p \equiv 3 \pmod{4}$, then a multiple of p is a sum of three squares. (This fact is needed in a proof of Lagrange's four square theorem.) In this note, we present a constructive proof of (1).