



**THE LAST THEOREM OF FERMAT,
IN ELEMENTARY WAY**

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Abstract

In this paper, the author works only through the factorization in factors, with the proceeding for absurd, that is, if x, y, z are prime among them, under the hypothesis that the tern of integers (x, y, z) were a solution of the equation

$$x^n + y^n = z^n,$$


then he obtains a nonsense. Three cases are separated:

1. n is power of 2;
2. n is odd;
3. n is product of a power of 2 for an odd number.

For a better understanding also the Pythagorean set of three numbers is reported.

Keywords and phrases: odd, even, factors.

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