About the Proved of Ferma's Big Theorem

In 1621 Ferma, French great mathermaticina, pointed out: when n \rangle 2, indeterminate equation $x^\Pi + y^\Pi = z^\Pi$, there not is any integer root. It is Ferma's big theorem that was not proved still over three hundred years.

There ,I have proved that the theorem is whole right.

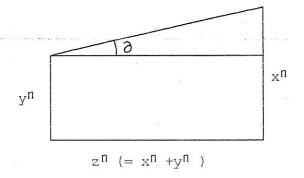
Writer: 海淀区三义庙北一号楼5门15号 郭傅 BEIJING CHINA Prove: when>2, indeterminate equation $x^n + y^n = z^n$ there not is any integer root $(n=3,4,5,\cdots)$.

Triing: in the light of

$$x^n + y^n = z^n \tag{1}$$

taking assist map , and getting:

$$x^{n} - y^{n} = z^{n} \cdot tq \partial$$
 (2)



from (1)+(2) and (1)-(2) getting separately:

$$2 \cdot x^{n} = z^{n} \cdot (1 + tq \partial)$$
 (3)

$$2 \cdot y^{n} = z^{n} \cdot (1 - tq \partial) \tag{4}$$

from $(3) \times (4)$ getting:

$$4 \cdot x^n \cdot y^n = z^{2 \cdot n} \cdot (1 + tq \partial) \cdot (1 - tq \partial)$$

taking evolution of n, and getting:

$$\sqrt[n]{4} \cdot x \cdot y = z^2 \cdot \sqrt[n]{1 - tg^2} \overline{\partial}$$
 (5)

looking (5) formula:

when n>2, $\sqrt[n]{4}$ is an infinite no recurring decimal.

So: x, y, z are not able to be integer at the same time.

To there: Ferma's Big Theorem had was proved.

Annotation:

A, above mentioned proof was suppose x>y.

if: x=y

then: from (1) getting $2 \cdot x^n = z^n$

then: $\sqrt[n]{2} \cdot x = z$

then: x, z are not integer at the same time, because $\sqrt[n]{2}$ is an infinite no recurring decimal.

B, (5) formula only is one change of (1), but in (5),
$$\sqrt[n]{4}$$
 reflects essence of Ferma's Big theorem.

when n=2,
$$\sqrt[n]{4} = 2$$
,
(5) formula becomes: $2 \cdot x \cdot y = z^2 \cdot \sqrt{1-tg^2} \partial$
select proper x and y, and z can be an integer,
example: (x, y, z) are $(3, 4, 5)$, $(6, 8, 10)$, $(5, 12, 13)$,

It is reason to ask n>2.

C, perhaps have a doubt there: if there is a set x and y making $\sqrt[n]{1-tg^2} \ \partial$ to become a product of $\sqrt[n]{4}$ and a rational number in (5)formula, thus $\sqrt[n]{4}$ is passed away?

suppose: $1-tg^2 \partial = 4k^{\Pi}$ (k is a rational number),

take tg
$$\partial$$
 = $\frac{x^n - y^n}{x^n + y^n}$ to get into: then $1 - \left(\frac{x^n - y^n}{x^n + y^n}\right)^2 = 4k^n$

simplify:
$$\frac{x^n - y^n}{x^n + y^n} = \sqrt{1 - 4k^n}$$

open up:
$$x^{n} - y^{n} = x^{n} \cdot \sqrt{1 - 4k^{n}} + y^{n} \cdot \sqrt{1 - 4k^{n}}$$

merge: $x^{n} \cdot (1 - \sqrt{1 - 4k^{n}}) = y^{n} \cdot (1 + \sqrt{1 - 4k^{n}})$
to multiply $(1 + \sqrt{1 - 4k^{n}})$ both sides:
 $x^{n} \cdot (1 - (1 - 4k^{n})) = y^{n} \cdot (1 + 2\sqrt{1 - 4k^{n}} + (1 - 4k^{n}))$
 $4k^{n} \cdot x^{n} = y^{n} \cdot (2 + 2\sqrt{1 - 4k^{n}} - 4k^{n})$
simplify:
 $\sqrt[n]{2} \cdot x = y \cdot \sqrt[n]{1 - 4k^{n}} - 2k^{n}$

If want to pass away $\sqrt[n]{4}$ in (5) formula, it is inevitable there is a relation of irrational number between x and y, obvious this is no rational.