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Math
Number Theory

All Pythagorean Triple Formulas

A)

$$(a + b)^2 + \left(\frac{-a^2 - ab}{a - b} + a \right)^2 = \left(b + \frac{-a^2 - ab}{a - b} \right)^2$$

$a, b \in \mathbb{N}$; $b > a$

or

B)

$$(a + b)^2 + \left(\frac{a^2 + ab}{a - b} - a \right)^2 = \left(\frac{a^2 + ab}{a - b} - b \right)^2$$

$a, b \in \mathbb{N}$; $b < a$

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