$X^3-Y^3=Z^3$ has no solution in Natural Numbers

Proof

$Z^3 = (x-y)(x^2+xy+y^2)$

=> A) $Z^3 = ZZ^2$

$Z^2 = (x^2+xy+y^2)$ contradiction to Binom 1 no square number ; $(x-y) = Z$

=> B) $Z^3 = Z^2Z$

$Z^2 = (x-y)$ contradiction because $(x-y) < (x^2+xy+y^2)$; $(x^2+xy+y^2) = Z$

=> No number solution for $x^3-y^3=z^3$

- ⇨ **$A^3+B^3 = C^3$ has no solution for A,B,C in Natural Numbers**

q.e.d.

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