$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1 \quad x^2b^2 - y^2a^2 = a^2b^2$

$(xb + ya)(xb - ya) = a^2b^2$

$a = b$

$(x+y)(x-y) = a^2$

$x + y = \xi \quad \begin{cases} \xi\eta = a^2 \end{cases}$

$x - y = \eta$

$2x = \xi + \eta$

$2y = \xi - \eta$