$x = a/b, y = c/d, \sqrt{....} = q$

$$q^2 = 1 + 2\frac{a^3 c}{b^3 d} + \frac{a\,c^2}{b\,d^2} = \frac{b^3 d^2 + 2a^3 c\,d + a\,b^2 c^2}{b^3 d^2} * \frac{b}{b}$$

$$= \frac{1}{(b^2 d)^2}(b^4 d^2 + 2a^3 b\,c\,d + a\,b^3 c^2); a = m^2, b = n^2$$

$()(n^8 d^2 + 2m^6 n^2 c\,d + m^2 n^6 c^2)$

Vollst. Quadrat wenn $m^6 n^2 c\,d = n^4 d * m\,n^3 c = n^7 m\,c\,d$

also $m^5 = n^5$