$(x_0 - x_1)^2 + (y_0 - y_1)^2 = d_2^2$
$(x_0 - x_2)^2 + (y_0 - y_2)^2 = d_1^2$

$x_0^2 - 2x_0x_1 + x_1^2 + y_0^2 - 2y_0y_1 + y_1^2 = d_2^2$
$x_0^2 - 2x_0x_2 + x_2^2 + y_0^2 - 2y_0y_2 + y_2^2 = d_1^2$

$[x_0^2 - 2x_0x_1 + x_1^2 + y_0^2 - 2y_0y_1 + y_1^2] - [x_0^2 - 2x_0x_2 + x_2^2 + y_0^2 - 2y_0y_2 + y_2^2] = d_2^2 - d_1^2$

$-2x_0(x_1 - x_2) - 2y_0(y_1 - y_2) + x_1^2 - x_2^2 + y_1^2 - y_2^2 = d_2^2 - d_1^2$

$-2x_0(x_1 - x_2) - 2y_0(y_1 - y_2) = d_2^2 - d_1^2 - x_1^2 + x_2^2 - y_1^2 + y_2^2 = C$

Ако $x_1 - x_2 \neq 0$, тогава $-2x_0(x_1 - x_2) = C + 2y_0(y_1 - y_2)$. Тогава $x_0 = \frac{C+2y_0(y_1-y_2)}{-2(x_1-x_2)} = \frac{C}{-2(x_1-x_2)} + \frac{2y_0(y_1-y_2)}{-2(x_1-x_2)} = \frac{C}{-2(x_1-x_2)} - \frac{y_0(y_1-y_2)}{(x_1-x_2)}$.
Нека $a = \frac{C}{-2(x_1-x_2)}$ и $b = \frac{(y_1-y_2)}{(x_1-x_2)}$. Тогава $x_0 = a - by_0$.

$x_0^2 - 2x_0x_1 + x_1^2 + y_0^2 - 2y_0y_1 + y_1^2 = d_2^2$
$(a - by_0)^2 - 2(a - by_0)x_1 + x_1^2 + y_0^2 - 2y_0y_1 + y_1^2 = d_2^2.$
$a^2 - 2aby_0 + b^2y_0^2 - 2ax_1 + 2bx_1y_0 + x_1^2 + y_0^2 - 2y_0y_1 + y_1^2 = d_2^2.$
$y_0^2[b^2 + 1] + y_0[-2ab + 2bx_1 - 2y_1] + [a^2 - 2ax_1 + x_1^2 + y_1^2 - d_2^2] = 0.$

$c_2 = b^2 + 1$, $c_1 = -2ab + 2bx_1 - 2y_1$, $c_0 = a^2 - 2ax_1 + x_1^2 + y_1^2 - d_2^2$.

Ако $c_2 \neq 0$:
$c_2 y_0^2 + c_1 y_0 + c_0 = 0.$
$D = c_1^2 - 4c_2 c_0.$
$y_0' = \frac{-c_1^2 - \sqrt{D}}{2c_2}.$
$y_1'' = \frac{-c_1^2 + \sqrt{D}}{2c_2}.$

Иначе $y_0 = \frac{-c_0}{c_1}$.