$y = C(x - C)^2$. $y' = 2C(x - C)$. Обозначим $(x - C) = \delta$ и решим систему $\begin{cases} C\delta^2 = y \\ 2C\delta = y' \end{cases}$.

$C\delta = \frac{y'}{2}$. $y = C\delta^2 = C\delta \cdot C = C\frac{y'}{2}$. $C = \frac{2y}{y'}$. $y' = \frac{4y}{y'}\left(x - \frac{2y}{y'}\right)$. $(y')^3 = 4y(xy' - 2y)$.