

$$CF = \sqrt{t^2 - 1} \cdot CD, \quad CF' = \sqrt{t^2 - 1} \cdot CD'$$
$$\begin{aligned} x &= \cos \beta + \frac{t}{\sin \alpha} \pm \sqrt{t^2 - 1} \sin \beta, \\ y &= \sin \beta \mp \sqrt{t^2 - 1} \cos \beta, \end{aligned}$$
$$\xi = \frac{x - \cos \beta}{\cos \beta}, \quad \eta = \frac{y - \sin \beta}{\cos \beta}$$
$$\xi \cos \beta = \frac{\sqrt{\eta^2 + 1}}{\sin \alpha} - \eta \sin \beta$$

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