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where $f_1(x, y) = 0$ is the equation obtained by eliminating t from the equations $x = f_1(t)$, $y = f_2(t)$ and where $f_2(x, z) = 0$ is the one obtained by eliminating t between the pair $x = f_1(t)$, $z = f_3(t)$. A usual parameter t to take is the length of the curve measured from some fixed point.

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$-\frac{\partial H}{\partial q} = P(p, q, t)/R(p, q, t)$, $\frac{\partial H}{\partial p} = Q(p, q, t)/R(p, q, t)$ then we may put the equations (4) in the form $dp/P(p, q, t) = dq/Q(p, q, t) = dt/R(p, q, t)$ (5)

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