$$\begin{aligned}
q &= f(q, p) \\
p &= g(q, p) \\
\chi' &= 7\lambda - 4y \\
\chi' &= \times + 2y \\
\chi' &= \times + 2y
\end{aligned}$$

$$\begin{aligned}
M &= \left(\frac{\partial \lambda'}{\partial x'}, \frac{\partial \lambda'}{\partial y'}\right) = \left(\frac{2}{1}, \frac{-1}{2}\right) \\
\frac{\partial \lambda'}{\partial x'}, \frac{\partial \lambda'}{\partial y'} &= \left(\frac{2}{1}, \frac{-1}{2}\right) \\
&= \lambda^2 - 4\lambda + \lambda^2 + 1 = 0
\end{aligned}$$

$$(\lambda - 2 + i)(\lambda - 2 - i) = 0$$

$$\lambda &= 2 - i \\
\lambda &= 2 + i$$