

The following equilibrium points have been calculated:

(0.0000, 0.0000) Spiral sink.
(1.4840, -0.7183) Saddle point.
(-0.8972, -1.7021) Saddle point.

$$\begin{aligned}x' &= -y + ux + xy^2 \\ y' &= x + uy - x^2\end{aligned}$$

$$u = -1$$

