Quadratic Equation

The quadratic equation is:

$$12x^2 - 5xy + 7y - 54$$

Coefficient Matrix

The coefficient matrix is:

$$\begin{pmatrix} 12 & -1.25 & 0 \\ -1.25 & 0 & 1.75 \\ 0 & 1.75 & -54 \end{pmatrix}$$

Curve Type

The type of the curve is: Hyperbole