$$A = \begin{pmatrix} 5 & 4 & -7 \\ 4 & 5 & -9 \\ -7 & -9 & 9 \end{pmatrix}, S = \begin{pmatrix} 5 & 4 \\ 4 & 5 \end{pmatrix} = 9 > 0 = 5 \text{ type elyptic}$$
(are central)

Determinan condonatele centrului.

$$\begin{cases} \frac{1}{2} (10x + 8y - 14) = 0 \\ \frac{1}{2} (8x + 10y - 18) = 0 \end{cases} \begin{cases} 5x + 4y = 7 \\ 4x + 5y = 9 \end{cases} \end{cases} \begin{cases} x = -\frac{1}{9} \\ f = \frac{17}{9} \end{cases}$$

$$=) C\left(-\frac{1}{9}, \frac{17}{9}\right).$$

Determinan partele axelor de nimetrie.

Déterminair écretir le avelor de remêtrice:

Determinant intersectie ale avelor de nimetre un depose

$$\begin{cases} 5x^{2} + 8xy + 5y^{2} - 14x - 18y + 9 = 0 \\ \end{cases}$$

$$5(y^{2}-(y+u)+1)(y^{2}-2y)+5y^{2}-32y+3+20$$

$$11y^{2}-68y+57=0$$

$$y_{1,2}=\frac{17}{9}+\frac{\sqrt{13}}{78} \Rightarrow x_{1}=\frac{17}{9}+\frac{\sqrt{13}}{18}$$

$$y_{2}=\frac{17}{9}-\frac{\sqrt{13}}{18} \Rightarrow x_{2}=-\frac{1}{9}+\frac{\sqrt{13}}{19}$$

$$A\left(-\frac{1}{9}+\frac{\sqrt{13}}{18}\right)\xrightarrow{17}+\frac{\sqrt{13}}{18}$$

$$y_{3}=\frac{17}{9}+\frac{\sqrt{13}}{18}\Rightarrow x_{2}=-\frac{1}{9}+\frac{\sqrt{13}}{19}$$

$$A\left(-\frac{1}{9}+\frac{\sqrt{13}}{18}\right)\xrightarrow{17}+\frac{\sqrt{13}}{18}$$

$$y_{4}=\frac{1}{9}-\frac{1}{18}$$

$$y_{1}=\frac{1}{9}+\frac{\sqrt{13}}{18}\Rightarrow x_{1}=\frac{1}{9}-\frac{1}{9}$$

$$y_{1}=\frac{1}{9}+\frac{1}{9}+\frac{1}{9}+\frac{1}{9}=0$$

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$$y_{1}=\frac{1}{9}+$$

