$$\Delta A = \begin{vmatrix} \dfrac{\partial^2 F}{\partial x^2}(A) & ; & \dfrac{\partial^2 f}{\partial x \partial y}(A) \\ \dfrac{\partial^2 F}{\partial y \partial x}(A) & ; & \dfrac{\partial F}{\partial y^2}(A) \end{vmatrix}$$