

$$J(f;x)=J(f_1,...,f_n;x_1,...,x_n):=\begin{vmatrix}\frac{\partial f_1}{\partial x_1}&\cdots&\frac{\partial f_n}{\partial x_1}\\\frac{\partial f_1}{\partial x_n}&\cdots&\frac{\partial f_n}{\partial x_n}\end{vmatrix}\in\mathbb{C}^*=\mathbb{C}\setminus\{0\}.$$