Let \( f : \mathbb{R}^n \to \mathbb{R}^m \) be of class \( C^2 \) on an open domain \( D \subset \mathbb{R}^n \), and let \( x_0 \in D \) be a nondegenerate critical point of \( f \). Show that \( x_0 \) is isolated. (hint. show that there is a neighborhood \( U \) of \( x_0 \) such that \( Df(x) \neq 0, \forall x \in U - \{x_0\} \)).