(a) Let the matrix $\mathbf{X} \in \mathbb{R}^{n \times d}$ and $\mathbf{y} \in \mathbb{R}^n$ and nc
that $n > d$ **and rank**$(\mathbf{X} + \epsilon_{\mathbf{X}}) = d$**, explain**
satisfying (5)**.**

This is a test.