Quiz 16 A.

R is a commutative ring. \( x \) is indeterminate (variable).
\[ R[x] = \{ \sum_{i=0}^{n} a_i x^i \mid n \in \mathbb{N}, a_i \in R \} \]

1. When are two elements \( f(x), g(x) \in R[x] \) equal?

2. If \( R \) is an integral domain, then \( R[x] \) is ________

3. Show that \( 2x+1 \) is a unit in \( \mathbb{Z}_4[x] \).