

Name _____ Fields and Rings, Quiz 2

1) Let $R = 2\mathbb{Z}$ and $S = R[x]$. Show that S is a ring.

2) Consider the element $(2,2) \in \mathbb{Z}_6 \times \mathbb{Z}_5$. Find the number n such that $n(2,2) = (0,0)$. That is, how many times do we need to add $(2,2)$ to itself until we get to the additive identity?