1 Project 3.2

In each of the following cases, explain what is meant by the statement and decide whether it is true or false:

- 1. For each $x \in \mathbb{Z}$, there exists $y \in \mathbb{Z}$ such that x + y = 1. The statement above is **true** because...
- 2. There exists $y \in \mathbb{Z}$, such that for each $x \in \mathbb{Z}$, x + y = 1.
- 3. For each $x \in \mathbb{Z}$, there exists $y \in \mathbb{Z}$ such that x + y = 1.
- 4. There exists $y \in \mathbb{Z}$ such that for each $x \in \mathbb{Z}$, xy = x. this is true