Worksheet 4

1. Define a "function" $f : \mathbb{Z}/6\mathbb{Z} \to \mathbb{Z}/5\mathbb{Z}$ by $f([x]_6) = [x]_5$. Show that f is not well-defined.

2. Define a function $f : \mathbb{Z}/10\mathbb{Z} \to \mathbb{Z}/5\mathbb{Z}$ by $f([x]_{10}) = [x]_5$. Show that f is well-defined.