163 Quiz 6 Name: _____

1. Let $f : \mathbb{N} \to \mathbb{N}$ via $x \mapsto 2x$

   (a) Show f is injective (one to one)

   (b) Show f is not surjective (onto)

2. Let $f : \mathbb{R}\backslash\{1\} \to \mathbb{R}\backslash\{1\}$ via $x \mapsto \frac{x}{x-1}$

   (a) Show f is injective

   (b) Show f is surjective