Homework 2

(a) Prove that the function $f : (1, \infty) \to (2, \infty)$, $f(x) = x^2 + x$ is one-to-one and onto.
(b)Prove that the function $f : \mathbb{R} \to \mathbb{R}$, $f(x) = x^2 + x$ is not one-to-one. Prove that this function is also not onto.