

Name _____

Student Number _____

Show all work. Label your answers clearly.

1. Let $f(x) = x^2 + 6x + 10$

a) (3 points) Give a domain for $f(x)$ so that $f(x)$ is one-to-one.

b) (5 points) Given your choice of domain for $f(x)$ from part (a), find $f^{-1}(x)$.

c) (2 points) Given your choice of domain for $f(x)$ from part (a), find the domain of $f^{-1}(x)$.