## M317 Assignment 6

1. (a) Show that $f(x)=x^{2}$ is continuous at $x=2$.
(b) Show that $f(x)$ is continuous at all $x_{0} \in R$.
2. (a) Show that $f(x)=\frac{1}{x-2}$ is not continuous at $x=2$.
(b) Show that $f(x)=\frac{1}{x-2}$ is continuous at $x=4$.
(c) Show that $f(x)=\frac{1}{x-2}$ is continuous at all $x=x_{0} \neq 2$.
