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 $x = x_0 \neq 2$.