## Quiz 2

1. At what points is f(x) continuous? Explain why.

$$f(x) = \begin{cases} x+2 & \text{if } x < 0\\ e^x & \text{if } 0 \le x \le 1\\ 2-x & \text{if } x > 1 \end{cases}$$

2. Find the following limits (support your answers with calculation)

(a)

$$\lim_{x \to \infty} \frac{2x^2}{3x^2 + x + 1}$$

(b)

$$\lim_{x \to \infty} \frac{x}{x^2 + 1}$$