## Math 181 Quiz 2 Version A

1. Explain what  $\lim_{x\to\infty} f(x) = L$  means in terms of inequalities using N and  $\epsilon$ .

2. Use algebraic simplifications to find the limits

(i) 
$$\lim_{x \to 1} \frac{x-1}{x^2-1}$$

(ii) 
$$\lim_{x \to \infty} \frac{x^2 + 3x - 1}{2x^2 - 4x + 3}$$