

# Quiz 2

## MATH 1A Fall 2015

17 September 2015

**Exercise 2.1.** State the definition of a function  $f : \mathbb{R} \rightarrow \mathbb{R}$  being continuous at a point  $a \in \mathbb{R}$ .

**Exercise 2.2.** Prove that

$$\lim_{x \rightarrow 1} \frac{x^5 + 3x^2 + 2}{x + 1} = 3.$$

You may assume that polynomials are continuous.