

Quiz 3

MATH 1A Fall 2015

24 September 2015

Exercise 3.1. Prove that

$$\lim_{x \rightarrow 0} x^2 \cos\left(\frac{1}{x}\right) + x = 0.$$

Exercise 3.2. State the definitions of the following limits.

$$\lim_{x \rightarrow a^-} f(x) = \infty$$

$$\lim_{x \rightarrow -\infty} f(x) = L$$