

## Study guide for quiz 02

Quiz problems include both the lecture contents and homework problems.

1. Section 2.3: Memorize the precise definition of  $\lim_{x \rightarrow c} = L$  using  $\varepsilon$  and  $\delta$ .
2. Section 2.3: Study how to prove  $\lim_{x \rightarrow c} f(x) = L$  and simple limit laws (such as Example 6 of section 2.3 and problem 2 of homework 02) using  $\varepsilon$  and  $\delta$  argument.
3. Section 2.4: Study the precise definitions of one-sided limit and continuity in terms of  $\varepsilon$  and  $\delta$ .
4. Section 2.4: Practice on variants of  $\lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta}$ . See related problems in homework 02.