

Study guide for quiz 02

Quiz problems include both the lecture contents and homework problems.

1. Section 2.4: Study the precise definitions of one-sided limit and continuity in terms of ε and δ .
2. Section 2.4: Practice on variants of $\lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta}$.
3. Section 2.5: Study how to define " $f(x)$ is continuous at c " using ε and δ .
4. Section 2.5: Study the statement, proof and application of Theorem 9, composition of continuous functions and Theorem 10, limits of continuous functions (proof in the textbook).
5. Section 2.5: Study the Intermediate Value Theorem (i.e. memorize it) and its applications including root locating.