# Study guide for quiz 03

Quiz problems include both the lecture contents and homework problems.

1. Section 2.5: Study how to define "$f(x)$ is continuous at $c$" using $\varepsilon$ and $\delta$.

2. Section 2.5: Study the statement, proof and application of Theorem 9, composition of continuous functions (in Lecture 4) and Theorem 10, limits of continuous functions (in textbook).

3. Section 2.5: Study the Intermediate Value Theorem (i.e. memorize it) and its applications including root locating.

4. Section 2.6: Study definition of the limits in p119, p125, p131 and Homework 03, problem 3. Find an example for each and for practice proving with these definitions.

5. Section 2.6: SKIP the asymptotes part.