Study Guide for Chap 02

- 1. Reading: Sections 2.2-2.6 (up to p104).
- 2. Table 2.3 in p71 is due to inexact answers of old calculators. It will not happen in modern computing software/hardware. Forget about it.
- 3. Memorize typical examples of 'limit does not exist' and discontinuity.
- 4. Pay attention to variants of $\lim_{\theta\to 0} \sin\theta/\theta$ and related examples.
- 5. Study the precise definitions on page 77, p84, p87, p93 and p104. Find an example for each definition and verify with the $\varepsilon \delta$ argument.
- 6. Study how the $\varepsilon \delta$ argument can be used to examine statements like Example 6, 7 in section 2.3 and Theorem 10 in section 2.5.
- 7. Study Intermediate Value Theorem and its application.