Following is a copy of the directions for the quiz.

This quiz consists of three questions. No partial credit will be assigned. On each of the questions one can earn a maximum of one point. Please work without the aid of notes, books, calculators, computers and other people.

One can prepare for the quiz by preparing the following:

- definitions and theorem statements
  1. function
  2. field
  3. ordered field
  4. absolute value function
  5. least upper bound property
  6. real numbers
  7. integers
  8. induction theorem
  9. closure of an interval
  10. rational number
  11. irrational number
  12. sequence
  13. finite sequence
  14. infinite sequence
  15. convergent sequence
  16. sequence converges to a real number
  17. limit of a sequence in \( \mathbb{R} \)
  18. sequence converges to infinity
  19. Cauchy sequence
  20. geometric series
  21. real-valued function continuous at a point

- the true/false questions for Chapter #4
• proof of fact that given $x \in \mathcal{F}$ ordered by $\mathcal{F}^+$ that $x \in \mathcal{F}^+$ if and only if $x > 0$. (Notes, p.31).

• proof of fact that a non-empty set of integers that is bounded below contains a least element (Notes, p.35).

• proof of Induction Theorem (Notes, p.36).