

ASSIGNMENT 11

MTH101 (2014)

- (1) Define supremum and infimum (greatest lower bound) of a non empty subset of \mathbb{R} .
- (2) What is the difference between minimum and infimum? Explain with the help of an example.
- (3) Prove that an increasing sequence of real numbers $\{x_n\}$ which is bounded above, converges to its supremum.