

MA341 Fall 2017 Review for Exam 1

1. p.15 #4
2. p.16 #16
3. p.37 State the definition of upper bound and lower bound (this is 2.3.1) and state the definition of $\sup S$ (this is 2.3.2)
4. p.48 State Nested Interval Property (this is 2.5.2)
5. p.56 State and prove Uniqueness of Limits (this is 3.1.4)
6. pp.64-65 Prove all 5 Limit Laws in 3.2.3 parts (a) and (b), the theorem will be stated for you and you will prove it.
7. p.68 Prove Theorem 3.2.10, the theorem will be stated for you and you will prove it.
8. pp.71-72 State and prove Monotone Convergence Theorem part (a) (this is 3.3.2)
9. p.77 #1
10. pp.81-82 State the Bolzano-Weierstrass Theorem (this is 3.4.8) and give the Second Proof
11. p.84 #7b, #7c
12. p.86 Prove Lemma 3.5.4, the lemma will be stated for you and you will prove it.
13. p.91 #4