**Study Guide for Math Analysis Final**

1. Functions (chapter 2) **(3 questions)**
2. Rational Functions
3. Domain/range
4. Identify the asymptotes/removable discontinuity
5. Exponential and Logarithm Functions (chapter3) **(7 questions)**
6. Solve log/natural log/exponential equations
7. Rewrite from Single log to Multiple logs and vice versa
8. Trigonometry (chapter 4 and 5) **(11 questions)**
9. Evaluate/simplify 6 trig. Functions
10. Solve Trig. Equations
11. Degree to Radian conversions
12. Graphs
13. Sequences and Series (chapter 9) **(11 questions)**
14. Sum of finite/infinite series
15. Partial sum
16. Arithmetic/geometric sequences…finding nth term
17. Probabilities
18. Limits (chapter 12) **(8 questions)**
19. Others: composite functions, factorials, system of equations

**(5 questions)**