**Sequence & Series Facts for the Exam**

1. The Sandwich Theorem. \((a_n \leq b_n \leq c_n)\)

2. The \((n^{th} \text{ term})\) divergence test. \((a_n \not\to 0)\)


4. The integral test.

5. The comparison test. (if larger series converges, smaller one does too)

6. The limit comparison test. \((\lim_{n\to\infty} \frac{a_n}{b_n} > 0)\)

7. The ratio test. \((\lim_{n\to\infty} \frac{a_{n+1}}{a_n} < 1)\) (Works as a test for absolute convergence for all series.)

8. The alternating series test.

9. \(\frac{f^{(n)}(a)}{n!}\)