

<p style="text-align: center;">Sums and Convergence Math 166</p>
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1. Use Geometric series: $\sum_{n=0}^{\infty} 2 \left(-\frac{1}{2}\right)^n$
2. Use n^{th} term Test: $\sum_{n=1}^{\infty} \frac{n}{2n+3}$
3. Use Integral Test: $\sum_{n=1}^{\infty} \frac{1}{2n+1}$
4. Use p-series: $\sum_{n=1}^{\infty} \frac{1}{n\sqrt[3]{n}}$
5. Use Comparison Test: $\sum_{n=1}^{\infty} \frac{1}{\sqrt{n^3+1}}$
6. Use Limit Comparison Test: $\sum_{n=1}^{\infty} \frac{1}{2^n - 5}$
7. Use Alternating Series Test: $\sum_{n=0}^{\infty} \frac{(-1)^n}{(2n)!}$
8. Use Absolute Convergence Test: $\sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n\sqrt{n}}$
9. Use Ratio Test: $\sum_{n=1}^{\infty} \frac{(-1)^{n+1}(n+2)}{n(n+1)}$
10. Use Root Test: $\sum_{n=1}^{\infty} \left(\frac{2n}{n+1}\right)^n$