Testing strategy for series including power series

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December 4, 2017

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- A p-series $\sum_{n=1}^{\infty} \frac{1}{n^p}$ will converge if $p > 1$ and otherwise diverge.
- A geometric series $\sum_{n=0}^{\infty} r^p$ will converge if $|r| < 1$ and otherwise diverge.

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- Limit comparison may work if the direct comparison inequality is in the wrong direction.

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- If the terms $a_n = f(n)$ for some positive, decreasing function $f(x)$, then the Integral Test may work.