Calculus II
Convergence of $\sum \frac{1}{n^p}$

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This theorem summarizes the results of the previous example.

Theorem (*p*-series Convergence)

The p-series $\sum_{n=1}^{\infty} \frac{1}{n^p}$ *is convergent if* $p > 1$ *and divergent if* $p \leq 1$.