



12.4

The Comparison Test: Given the series $\sum_{n=1}^{\infty} a_n$, $(a_n \ge 0)$ (*i*) if the terms a_n are **smaller** than the terms b_n of a known **convergent** series $\sum_{n=1}^{\infty} b_n$ $(b_n \ge 0)$, then our series $\sum_{n=1}^{\infty} a_n$ is also **convergent**. (*ii*) if the terms a_n are **larger** than the terms b_n of a known **divergent** series $\sum_{n=1}^{\infty} b_n (b_n \ge 0)$, then our series $\sum_{n=1}^{\infty} a_n$ is also **divergent**.

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