

Daily Quiz

- Go to [Socrative.com](https://www.socrative.com) and complete the quiz.
- Room Name: HONG5824
- Use your full name.

8.3 Limit Comparison Test

The Limit Comparison Test. Suppose that $\sum a_n$ and $\sum b_n$ are series with positive terms.

If $\lim_{n \rightarrow \infty} \frac{a_n}{b_n}$ exists and is non-zero, then either both series converge or both series diverge.

8.3 Limit Comparison Test

EXAMPLE 5 Using the Limit Comparison Test

Test the series $\sum_{n=1}^{\infty} \frac{1}{2^n - 1}$ for convergence or divergence.

8.3 Limit Comparison Test

Determine whether the series $\sum_{n=1}^{\infty} \frac{5}{2n^2 + 4n + 3}$ converges or diverges.

