

§11.4 The Comparison Tests

In-class Activity 11.4



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Activity 1:

Use the comparison test to determine whether $\sum_{n=1}^{\infty} \frac{5}{2n^2 + 4n + 3}$ converges or diverges.

Activity 2:

Use the comparison test to determine whether $\sum_{n=1}^{\infty} \frac{\ln(n)}{n}$ converges or diverges.
(Hint: ignore the first few terms then compare.)

Activity 3:

Use the limit comparison test to determine whether the series converges or diverges.

(a) $\sum_{n=0}^{\infty} \frac{1}{3^n - 4}$

(b) $\sum_{k=0}^{\infty} \frac{2k^3 - 5k - 3}{\sqrt{7 + k^8}}$