

Section 4-6 : Integral Test

For each of the following series determine if the series converges or diverges.

1. $\sum_{n=1}^{\infty} \frac{1}{n^{\pi}}$

2. $\sum_{n=0}^{\infty} \frac{2}{3+5n}$

3. $\sum_{n=2}^{\infty} \frac{1}{(2n+7)^3}$

4. $\sum_{n=0}^{\infty} \frac{n^2}{n^3+1}$

5. $\sum_{n=3}^{\infty} \frac{3}{n^2-3n+2}$

