

Determine whether the series converges:

Example 1. If the series $\sum_{n=1}^{\infty} \frac{1}{2^n + n}$ convergent?

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

Example 3. $\sum_{n=1}^{\infty} \frac{5 + 5^n}{2^n}$

Example 4. $\sum_{n=1}^{\infty} \frac{1}{2^n \sqrt{n}}$

Example 5. $\sum_{n=1}^{\infty} \frac{1}{2n - 3}$

Example 6. $\sum_{n=1}^{\infty} \frac{1}{2n + 3}$

Example 7. $\sum_{n=1}^{\infty} \frac{1}{2n^2 - 3}$

Example 8. $\sum_{n=1}^{\infty} \frac{2 + 7^n}{\pi + 3^n}$

Example 9. $\sum_{n=1}^{\infty} \frac{n^3 - 2n}{n^4 + 3n^2}$

Example 10. $\sum_{n=1}^{\infty} \frac{3 + 4n^2}{(n^2 - 1)^3}$