Yes, Absolutely

Determine whether each of the following series is absolutely convergent, conditionally convergent, or divergent.

1. $\sum_{n=1}^{\infty}(-1)^n \frac{n^3}{n^2+12}$

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

3. $\sum_{n=1}^{\infty}(-1)^n \frac{12}{n^2-7}$

4. $\sum_{n=1}^{\infty}(-1)^n \left(\frac{n}{3n+6}\right)^{2n}$