

Q1. Find the interval and radius of convergence for $\sum_{n=1}^{\infty} \frac{(-1)^n n!}{(2n-1)!} x^n$.



Q2. Find the sum of $\sum_{n=1}^{\infty} \frac{(-1)^n}{2^n n}$.



Q1. Find the interval and radius of convergence for $\sum_{n=0}^{\infty} \frac{(x+1)^n}{3^n (n+1)}$.



Q2. Find the sum of $\sum_{n=1}^{\infty} \frac{n}{2^{n-1}}$.



Q1. Find the interval and radius of convergence for $\sum_{n=1}^{\infty} \frac{(-1)^n (x-2)^n}{n}$.



Q2. Find the sum of $\sum_{n=0}^{\infty} \frac{(-1)^n}{2n+1}$.

