

3. Find the interval and radius of convergence of $\sum_{n=2}^{\infty} \frac{(x-3)^{2n}}{n^4}$

4. Find the interval and radius of convergence of $\sum_{n=2}^{\infty} \frac{(x+5)^n}{n \ln n}$

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

6. Give an example of a power series that converges on the interval $[-11, -3)$.