

Problem Set Sections 11.8

Power Series

Problem 1

Find the radius of convergence and interval of convergence of the power series $\sum_{n=1}^{\infty} \frac{x^n}{n3^n}$.

Problem 2

Find the radius of convergence and interval of convergence of the power series $\sum_{n=0}^{\infty} \frac{(x-2)^n}{n^2+1}$.

Problem 3

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

Problem 4

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

