

Math 232 Worksheet 13 - Power Series

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

Answer Keys:

1. $-1 \leq x \leq 1$
2. radius of convergence: 1 interval of convergence: $(0, 2)$