

11.8 - Power Series

Calculus II

Determine the interval and radius of convergence

1. $\sum_{n=1}^{\infty} \frac{6^n}{n} (4x - 1)^{n-1}$

2. $\sum_{n=0}^{\infty} \frac{n+1}{(2n+1)!} (x - 2)^n$

3. $\sum_{n=1}^{\infty} \frac{x^n}{n^4 4^n}$

$$4. \sum_{n=0}^{\infty} \frac{(x-8)^n}{n^4+1}$$

$$5. \sum_{n=2}^{\infty} \frac{(x+2)^n}{2^n \ln(n)}$$

$$6. \sum_{n=1}^{\infty} \frac{x^n}{n4^n}$$