

POWER SERIES

BLAKE FARMAN

Lafayette College

Name: _____

For each of the power series below, find the Radius and Interval of Convergence.

1.
$$\sum_{n=1}^{\infty} \frac{x^n}{2n-1}$$

$$2. \sum_{n=0}^{\infty} \frac{x^n}{n!}$$

$$3. \sum_{n=0}^{\infty} \frac{(x-2)^n}{n^2+1}$$

$$4. \sum_{n=2}^{\infty} \frac{(x+2)^n}{2^n \ln(n)}$$