Exercise 1 (5 points)

Find the radius and the interval of convergence of the power series
\[ \sum_{n=1}^{\infty} \frac{(2x - 1)^n}{n3^n} \]

Exercise 2 (5 points)

Find the Taylor series for the function \( f(x) = \ln(2 + x) \) at \( a = 1 \)
Exercise 1 (5 points)

Find the radius and the interval of convergence of the power series \[ \sum_{n=1}^{\infty} \frac{(3x - 1)^n}{n2^n} \]

Exercise 1 (5 points)

Find the Taylor series for the function \( f(x) = \ln(2 + x) \) at \( a = 2 \)