

Name:

1. (3pts) Find the power series representing the function $\frac{1}{1-x^2}$.

2. (3pts) Find the Taylor series of the function e^x centered at $a = 2$.

3. (4pts) The series $\sum_n c_n 2^n$ and $\sum_n c_n (-3)^n$ converge. What is the minimal possible radius of convergence of $\sum_n c_n x^n$?