## **BC Calculus Power Series Practice**

Name: \_\_\_\_\_

1. What is the radius of convergence of a power series? How do you find it?

3. Find the radius of convergence and interval of convergence for each of the following series.

4. Find a power series representation for the following functions and find the interval of convergence. Include the first non-zero terms and the general term,

Include the first holizero terms and the general terms  
a) 
$$f(x) = \frac{3}{1-3x} = \frac{a_1}{1-r} \qquad f = 3 \times n = 0 \quad 3 \quad (3x)^n \quad 3 + q_X + 3r_X + \xi | X + \frac{a_1}{2} + \frac{a_1}{1-r} = \frac{a_1}{1-$$