(11.8) Power Series

Full Name: _____

1. Find the open interval of convergence for each power series. Show your work.

(a) $\displaystyle\sum_{n=0}^{\infty} \frac{3^n x^n}{n^3 + 10}$

(b) $\displaystyle\sum_{n=1}^{\infty} \frac{(x+2)^n}{n^2 3^n}$

(c) $\displaystyle\sum_{n=1}^{\infty} \frac{5^{n+1}(x-3)^n}{n10^n}$

(d) $\displaystyle\sum_{n=0}^{\infty} \frac{(-4)^n x^n}{n!}$