- **3.** (10 points)
- (a) Find the radius of convergence R of the following power series. Show your work.

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

ANSWER : $R = \underline{\hspace{1cm}}$

(b) What is the interval of convergence of the series?

_____< x < _____.