## QUIZ 10 - MATH 152 YOUR NAME:

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Consider the power series

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

- (a) Where is it centered at?
- (b) Apply the ratio test to find its radius of convergence.

(c) Find its interval of convergence.