

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

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

Student ID: \_\_\_\_\_

## Quiz 3

**Question 1.** (5 marks) Test the following series for convergence or divergence.

(a) (5 marks) 
$$\sum_{n=1}^{\infty} \frac{3^n n^2}{n!}$$

(b) (5 marks) 
$$\sum_{n=1}^{\infty} (\sqrt[n]{2} - 1)^n$$