

MA 162 - Quiz 18:
Root and Ratio tests, Choosing a convergence test

April 2, 2020

Question 1

Use the Root test or the Ratio test to determine whether the following series converge:

1. $\sum_{n=0}^{\infty} \frac{n^3+n^2}{(n+1)!}$

2. $\sum_{n=1}^{\infty} \frac{10^{3+5n}}{n^{1+n^2}}$

Question 2

Use the appropriate test to determine whether the following series converge:

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