Student ID:

Student Name:

Serial Number:

MATH102, Section 1
Fall 2018, Term 173

Quiz 6
Version A

Instructions: Show Your Work!

1. (3 pts) Test for convergence

$$\sum_{n=1}^{\infty} \left(1 + \frac{1}{n}\right)^{-n}$$

2. (3 pts) Test for convergence

$$\sum_{n=1}^{\infty} \frac{7^n}{n!}$$

3. (4 pts) Test for convergence

$$\sum_{n=1}^{\infty} \frac{6n^4 - 2n^3 + 1}{n^5 + n^2 - 2n}$$

Student ID:

Student Name:

Serial Number:

MATH102, Section 3
Fall 2018, Term 173
Instructions: Show Your Work!

Quiz 6
Version B

1. (3 pts) Test for convergence

$$\sum_{n=1}^{\infty} n^2 \sin^2\left(\frac{1}{n}\right)$$

2. (3 pts) Test for convergence

$$\sum_{n=1}^{\infty} \frac{n^n}{n!}$$

3. (4 pts) Test for convergence

$$\sum_{n=1}^{\infty} \frac{1}{\sqrt{n^3+2n}}$$