Student ID:

Student Name:

Serial Number:

MATH102, Section 1
Fall 2018, Term 173

Quiz 5
Version A

Instructions: Show Your Work!

1. (3 pts) Evaluate, if possible

$$\int_0^1 \frac{dx}{\sqrt{1-x}}.$$

2. (3 pts) Show that the sequence is descreasing

$$\left\{\frac{e^n}{(n+1)!}\right\}.$$

3. (4 pts) Determine wether the series converges or diverges. If it converges, find its sum.

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

Student ID:

Student Name:

Serial Number:

MATH102, Section 3
Fall 2018, Term 173

Quiz 5
Version B

Instructions: Show Your Work!

1. (3 pts) Evaluate, if possible

$$\int_1^2 \frac{dx}{1-x}.$$

2. (3 pts) Show that the sequence is descreasing

$$\left\{\frac{5^n}{n!}\right\}.$$

3. (4 pts) Determine wether the series converges or diverges. If it converges, find its sum.

$$\sum_{n=1}^{\infty} \frac{4^{n+2}}{7^{n-1}}$$