Student ID:

Student Name:

Serial Number:

Math 102, Section 6
Summer 2016, Term 153

Quiz 4
Version A

Instructions: Show Your Work!

1. Determine whether the following series are convergent or divergent. If convergent, find the sum (if possible).

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

2. Determine whether the following series are convergent or divergent. If convergent, find the sum (if possible).

$$\sum_{n=1}^{\infty} \frac{3^n + 2^n}{6^n}.$$

3. Use the integral test to determine whether the following series are convergent or divergent. If convergent, find the sum (if possible).

$$\sum_{n=2}^{\infty} \frac{1}{n \ln n}.$$

Student ID:

Student Name:

Serial Number:

Math 102, Section 8
Summer 2016, Term 153

Quiz 4
Version B

Instructions: Show Your Work!

1. Determine whether the following series are convergent or divergent. If convergent, find the sum (if possible).

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

2. Determine whether the following series are convergent or divergent. If convergent, find the sum (if possible).

$$\sum_{n=1}^{\infty} \frac{3^n + 4^n}{12^n}.$$

3. Use the integral test to determine whether the following series are convergent or divergent. If convergent, find the sum (if possible).

$$\sum_{n=2}^{\infty} \frac{1}{n \ln n}.$$