

Math 102
Quiz 4A

Name:

Sec:

Serial:

1. Find the sum of the series

$$1 - e + \frac{e^2}{2!} - \frac{e^3}{3!} + \frac{e^4}{4!} + \cdots$$

2. Evaluate the integral as a power series

$$\int \frac{t}{1-t^6} dt$$

3. Find the radius and interval of convergence of the series

$$\sum_{n=0}^{\infty} \frac{(-3)^{n+1}(2x+1)^n}{\sqrt{n+1}}$$