

APPM 1360

Spring 2022

Quiz 8

4/5/2022

Time Limit: 10 Minutes

Name: _____

Recitation Section: _____

1. (10 points) The power series for $\sin x$ is $\sum_{n=0}^{\infty} \frac{(-1)^n}{(2n+1)!} x^{2n+1}$. Evaluate the definite integral as a power series

$$\int_{-1}^0 \frac{\sin x}{x} dx$$

Your solution should be a series, but you need not evaluate the series.