

APPM 1360

Spring 2022

Quiz 6

03/12/2022

Time Limit: 10 Minutes

Name: _____

Recitation Section: _____

1. (10 points) Determine whether the following sequence is absolutely convergent, conditionally convergent, or divergent (Hint: *this is an alternating series in disguise!*)

$$\sum_{n=1}^{\infty} \frac{\cos(n\pi)}{\sqrt[7]{n^5}}$$