

APPM 1350

Name: \_\_\_\_\_

Fall 2021

Quiz 1

08/31/2021

Time Limit: 10 Minutes

Recitation Section: \_\_\_\_\_

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1. Consider the function

$$f(x) = \frac{(1 - \cos^2(x)) \csc(x)}{7x}$$

a. (2 points) Simplify  $f(x)$  as much as possible.

b. (2 points) Compute  $f(\pi)$ ,  $f(\frac{\pi}{2})$ .

c. (2 points) Is  $f(x)$  even, odd, or neither?

2. (4 points) Find the domain of the function  $g(x) = \frac{1}{\sqrt{x^2(x+3)}}$ , and express your answer in interval notation.