

**APPM 1350**

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

**Fall 2021**

**Quiz 4**

**09/28/2021**

**Time Limit: 10 Minutes**

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

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In the following problems, you do not need to simplify your answers at all.

1. Compute the derivative of the following function, where  $A$  and  $B$  are constants.

$$g(x) = A \tan(3x) + B \sec(3x)$$

2. Find  $\frac{dh}{dx}$  for the following function.

$$h(x) = \sin\left(\frac{x}{x+1}\right)$$