

APPM 1350

Fall 2021

Quiz 6

10/19/2021

Time Limit: 10 Minutes

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

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

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1. Which of these functions has a slant asymptote? If it exists, find it. If not, explain why it does not exist.

(a)  $y = \frac{x^2 - x + 2}{x - 4}$

(b)  $y = \frac{5x + 9}{8x^3 + 1}$

2. For the function that has a slant asymptote, use the *slant* asymptote as well as the *vertical* asymptote to sketch the graph.