# Quiz 3 <br> MATH 1231 - Single-variable Calculus I <br> Summer 2016 

Total Points: 10
Total Time: 15 minutes

Name: $\qquad$ Date: $\qquad$
Read all of the following information before starting the quiz:

- Show all work, clearly and in order, to get full credit. I reserve the right to take off points if I cannot see how you arrived at your answer (even if your final answer is correct).
- Do not use calculators.
- Circle or otherwise indicate your final answers.

1. Find a slant asymptote of the function

$$
y=\frac{2 x^{3}+x^{2}+1}{x^{2}+1}
$$

2. Find the points on the ellipse $4 x^{2}+y^{2}=4$ that are farthest away from the point $(1,0)$.
