

MATH 131, Fall 2019

Quiz 1a

09/12/19

Name: _____

Section: _____

1. Evaluate the limit

$$\lim_{x \rightarrow -4} \sqrt{x^2 + 9} \cos \left(\pi \left(\frac{4x^2 + 16x}{16 - x^2} \right) \right),$$

using the limit laws. Show all steps of simplifying within limits clearly. If you apply the direct substitution property, you should indicate where it is applied and justify the application.