Quiz 8	3
Матн	221

Fall 2016

Give an answer. Show all work. No calculators are allowed.

- 1. Determine where the following function is:
  - (a) Positive and negative
  - (b) Increasing and decreasing
  - (c) Concave up (convex) and concave down
- (d) Behavior at infinity; slant or horizontal asymptotes?
- (e) Behavior where the function is singular; vertical asymptotes?

Finally, sketch the graph!

$$f(x) = \frac{4x}{x^2 + 1}$$