

MATH 114 QUIZ 6
25 OCTOBER 2016

Solve the following two problems. Show all steps in your work.

- (1) Find all vertical, horizontal, and oblique asymptotes, if any, for the following function:

$$F(x) = \frac{(3x + 6)(2x^2 + 7x - 4)}{(x^2 + 6x + 8)(x - 1)}$$

- (2) Solve the following inequality. Check your answer by testing the inequality for at least two specific values of x . Write your answer in interval notation.

$$3 \leq \frac{2x - 5}{x + 4}$$