

WRITE YOUR NAME:

MAC 2311 Homework 3

Due in class, Friday September 29th

You can use more paper if necessary, but please STAPLE

Question 1. For each function, find the horizontal asymptotes, if there are any.

$$f(x) = \frac{2x - 7}{x^2 - 4x}$$

$$g(x) = \frac{2x^2 - 6}{x^2 + 5x}$$

Question 2. What's the slope of the tangent line to the graph of $y = x^2$ at the point where $x = 3$?