Math 241 Fall 2018 Professor MG

 Quiz 7
 Name:

Show all work and circle/box your final answer. All answers must be simplified unless stated otherwise.

1. (10 points) Using asymptotes and the first and second derivative, sketch a graph of

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

The first and second derivative are given below:

$$f'(x) = \frac{2(x^2+4)}{(x-2)^2(x+2)^2}$$
 and  $f''(x) = \frac{-4x(x^2+12)}{(x-2)^3(x+2)^3}$