Problem 1

Sketch $y = \dfrac{1}{x^2 + 1}$. (To be clear, this means going through all the steps on page 213 of your book "Strategy for graphing $y = f(x)$." Showing your work, e.g. how you simplify your derivatives, will be the majority of the points... but your graph should be nice too!)

Problem 2

Sketch $y = \dfrac{x^2}{x^2 - 4}$.