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

when  $|x| \ll |$ ,  $f(x) \approx 2x^2$ When  $|x| \gg |$ ,  $f(x) \approx 2$ Use even function property to sketch this side property to sketch this side f(x)f(x) approaching f(x) derivative f(x)

zero derivative