

Math 180
Winter, 2009

Name _____

Homework #1
Due Wednesday, January 7
No late papers accepted! No excuses!

1. Let $f(x) = \frac{1}{x^2 - 4}$.

a) State the domain and the range.

b) Evaluate and simplify $\frac{f(x+h) - f(x)}{h}$.

2. Determine algebraically whether the following function is even, odd or neither.

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

