

WRITE YOUR NAME:

MAC 2241 Homework 2

Due in class, Friday September 22nd

You can use more paper if necessary, but please STAPLE

Question 1. If $f(x) = x^2$, simplify the given expression.

$$\frac{f(3+h) - f(3)}{h}$$

Question 2. If $f(x) = \frac{1}{x}$, simplify the given expression.

$$\frac{f(5+h) - f(5)}{h}$$

Question 3. Find the domain of the function.

$$f(x) = \frac{x + 4}{x^2 - 9}$$

Question 4. Find the domain of the function.

$$f(x) = \sqrt{3-x} - \sqrt{2+x}$$