

Math 2311 Q5A 2020

Name: _____ #: _____

1. Show algebraically if the given function is even, odd, or neither.

$$f(x) = x^2|x| + 6$$

2. Evaluate the function at the given values of x .

$$f(x) = \begin{cases} -2|x| - 3 & \text{for } x \leq -2 \\ 5x + 6 & \text{for } -2 < x < 3 \\ 4 & \text{for } x \geq 3 \end{cases}$$

a) $f(3)$

b) $f(-2)$

c) $f(-1)$

d) $f(5)$