

Name: _____

Date: _____

PC: Evaluating Piecewise Functions

Ms. Loughran

Evaluate the function at the specified values.

1. $f(x) = \begin{cases} 2x + 1, & x < 0 \\ 2x + 2, & x \geq 0 \end{cases}$ a) $f(-1)$ b) $f(0)$ c) $f(2)$

2. $f(x) = \begin{cases} x^2 + 2, & x \leq 1 \\ 2x^2 + 2, & x > 1 \end{cases}$ a) $f(-2)$ b) $f(1)$ c) $f(2)$

3. $f(x) = \begin{cases} 3x - 1, & x < -1 \\ 4, & -1 \leq x \leq 1 \\ x^2, & x > 2 \end{cases}$ a) $f(-2)$ b) $f(-\frac{1}{2})$ c) $f(3)$

4. $f(x) = \begin{cases} 4 - 5x, & x \leq -2 \\ 0, & -2 < x < 2 \\ x^2 + 1, & x > 2 \end{cases}$ a) $f(-3)$ b) $f(4)$ c) $f(-1)$