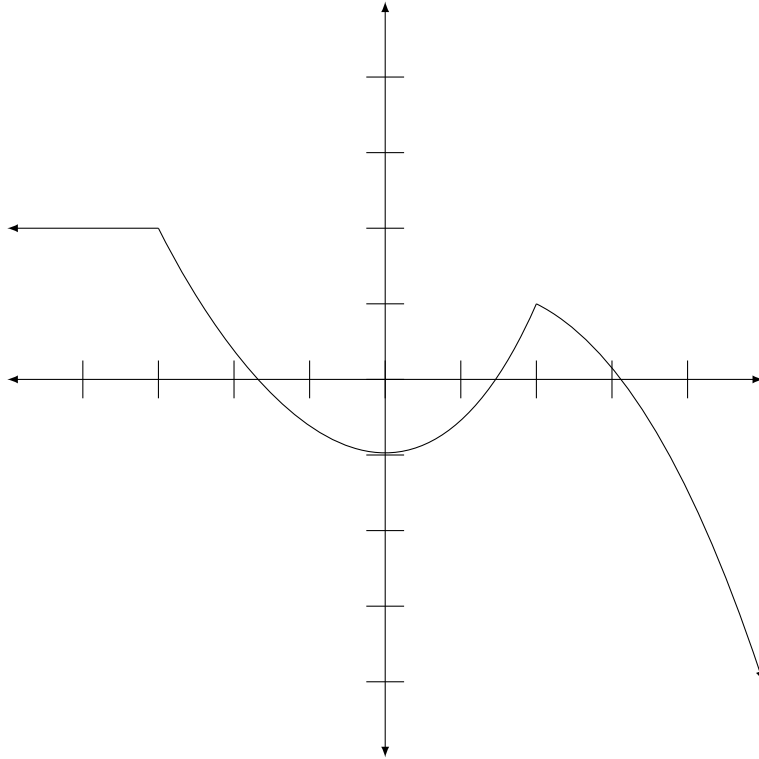


Name _____

Quiz 9

1. Use the following graph of the function $f(x)$ to answer the questions.



- a) Find the relative maximum(s) _____
- b) Find the relative minimum(s) _____
- c) Find the relative maximum value(s) _____
- d) Find the relative minimum value(s) _____
- e) Where is $f(x)$ increasing? _____
- f) Where is $f(x)$ decreasing? _____
- g) $f(2) =$ _____
- h) $f(-4) =$ _____

2. Let $f(x) = 2x - 4$ and $g(x) = x^2$. Find...

- a) $(f + g)(2)$
- b) $(f \circ g)(2)$

3. Graph the following piecewise function on the axes provided

$$g(x) = \begin{cases} -|x| & x < 1 \\ -2x + 4 & x \geq 1 \end{cases}$$

