

Writing Equations from Piecewise Graphs

For each graph, list the functions and their domains:

1) Write domain

2)

LinReg \rightarrow 2 points

QuadReg \rightarrow 3 points

3) Write function

$$f(x) = \begin{cases} \underline{x-2}, & x < 1 \\ \underline{-x+2}, & x \geq 2 \end{cases}$$

$(0, -2)$
 $(-1, -3)$

$(2, 0)$
 $(3, -1)$

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

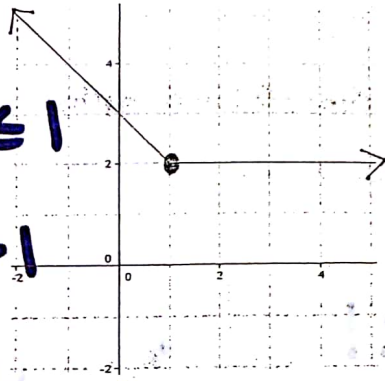
$(2, 3)$
 $(3, 4)$

$(0, 0)$
 $(1, 1)$
 $(2, 4)$

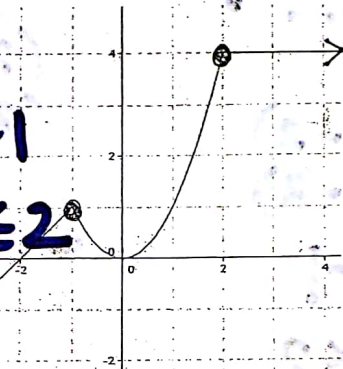
$$f(x) = \begin{cases} x+3, & x < -1 \\ x^2, & 0 \leq x \leq 2.5 \\ 2, & x > 4 \end{cases}$$

$(0, 0)$
 $(1, 1)$
 $(2, 4)$

$$f(x) = \begin{cases} -x+3, & x \leq 1 \\ 2, & x > 1 \end{cases}$$



$$f(x) = \begin{cases} x+2, & x \leq -1 \\ x^2, & -1 < x \leq 2 \\ 4, & x > 2 \end{cases}$$



$$f(x) = \begin{cases} \frac{3}{2}x+3, & x \leq 0 \\ 1, & x = 1 \\ -x+6, & x \geq 2 \end{cases}$$

