

Piecewise Function

A function defined by **different** equations over **different** parts of the **domain**.

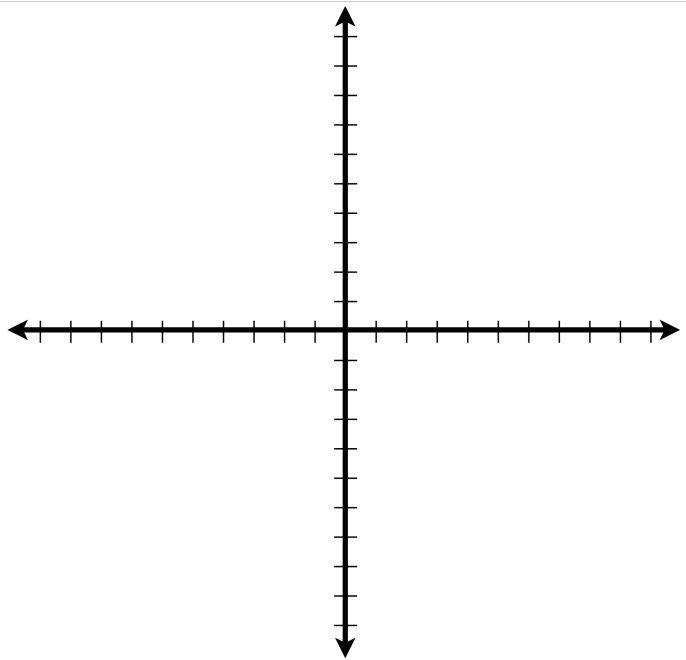
Find $f(-5)$, $f(0)$, $f(4)$,

$$f(x) = \begin{cases} -2x - 4 & \text{if } x < -1 \\ x + 1 & \text{if } x \geq -1 \end{cases}$$

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

Find $f(-8)$, $f(-2)$, $f(5)$,

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