

GUIDED NOTES: Piecewise Functions

Evaluating Piecewise Functions

Given:

$$f(x) = \begin{cases} |x-4|-7, & x \leq -1 \\ 2x-3, & -1 < x < 1 \\ -x^2-2, & x \geq 1 \end{cases}$$

EX1. $f(-3)$

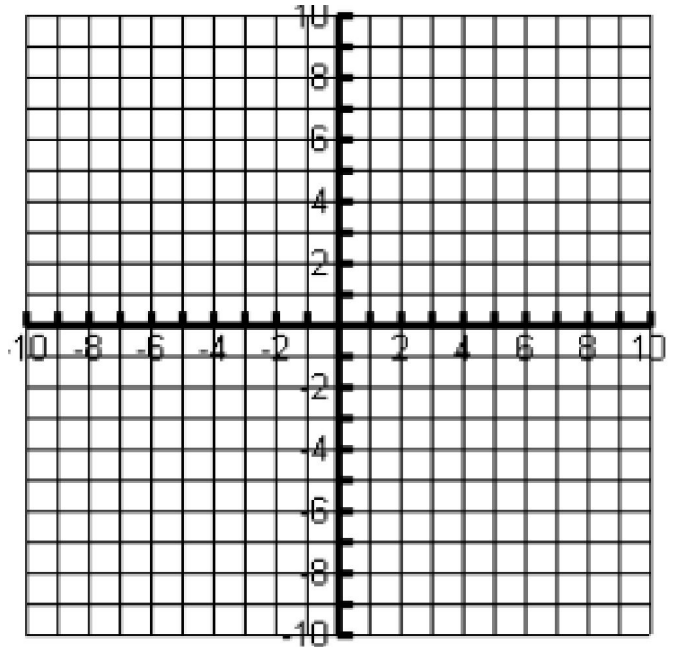
EX2. $f(0)$

EX3. $f(1)$

EX4. $f(5) + 6f(-4)$

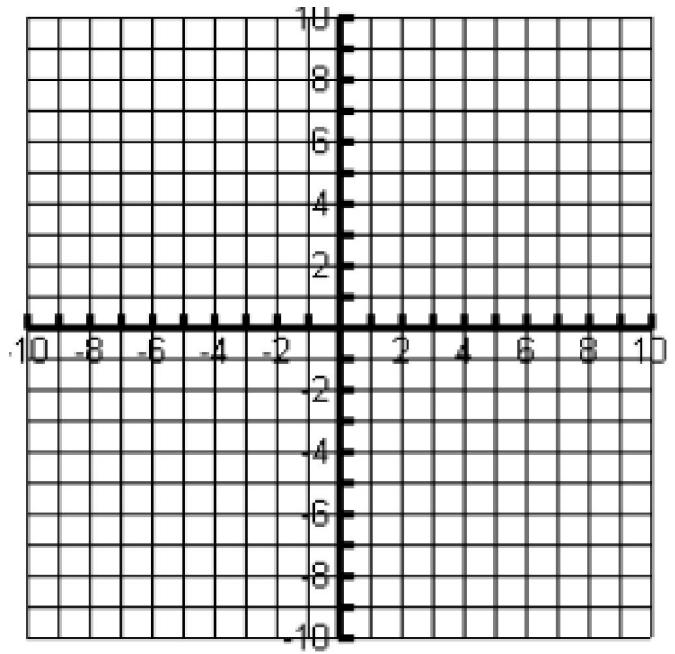
Graphing Piecewise Functions

EX5. $f(x) = \begin{cases} x-4, & x < 0 \\ -x+4, & x \geq 0 \end{cases}$



EX6.

$$f(x) = \begin{cases} x^2, & x \geq -2 \\ x+8, & x < -2 \end{cases}$$



EX7.

$$f(x) = \begin{cases} -x, & x < -1 \\ 5, & -1 \leq x \leq 1 \\ x, & x > 1 \end{cases}$$

