Graph each function without a calculator.

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

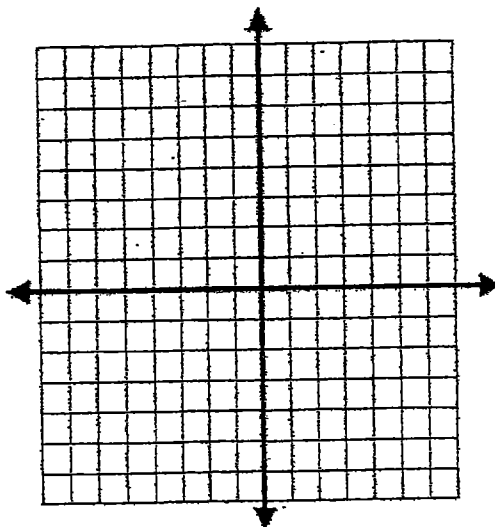Evaluate the following:

$f(0) =$

$f(-3) =$

$f(2) =$

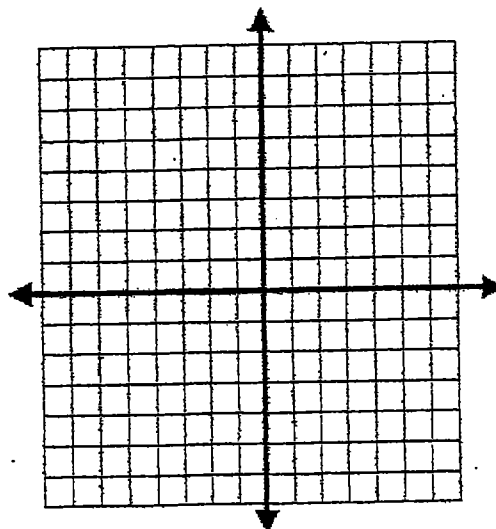2. $f(x) = \begin{cases} x+3 & , \quad x \leq 0 \\ 3, & 0 < x \leq 2 \\ 2x-1 & , \quad x > 2 \end{cases}$

Evaluate the following:

$f(-1) =$

$f(1) =$

3. $f(x) = \begin{cases} 3x+5, & x \leq -2 \\ x-4, & x > 2 \end{cases}$

Evaluate the following:
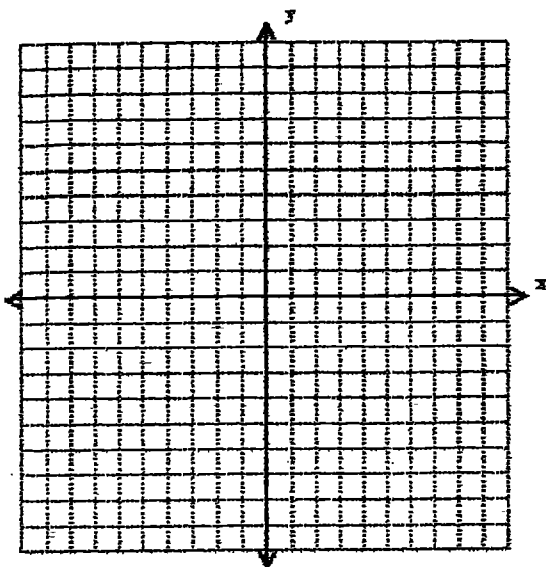
$f(2) =$

$f(-3) =$

$f(0) =$

4. Graph the piecewise function and evaluate it at the given values of x.
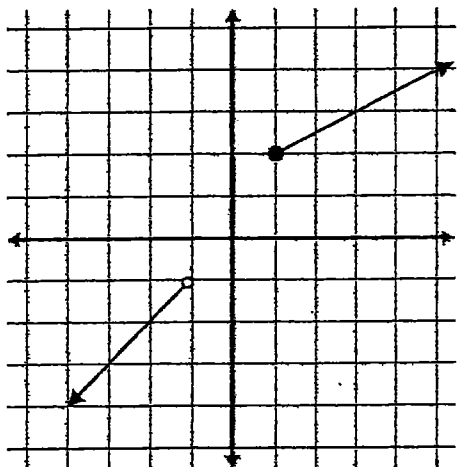
$$f(x) = \begin{cases} 2x - 1, & x \le -2 \\ 4, & -2 < x \le 3 \\ -x + 2, & x > 3 \end{cases}$$

Evaluate. $f(-4) =$

$f(3) =$

5.

Write the piecewise function for the graph.