## Exercise 95

For the following exercises, for each of the piecewise-defined functions, a. evaluate at the given values of the independent variable and b. sketch the graph.

$$
f(x)=\left\{\begin{array}{l}
x^{2}-3, x<0 \\
4 x-3, x \geq 0
\end{array} ; f(-4) ; f(0) ; f(2)\right.
$$

## Solution



$$
\begin{aligned}
f(-4) & =(-4)^{2}-3=16-3=13 \\
f(0) & =4(0)-3=0-3=-3 \\
f(2) & =4(2)-3=8-3=5
\end{aligned}
$$

