

Algebra 2: Piecewise Functions

Determine the value given.

$$f(x) = \begin{cases} x^2 & x \leq 0 \\ \sqrt{x} & x > 0 \end{cases}$$

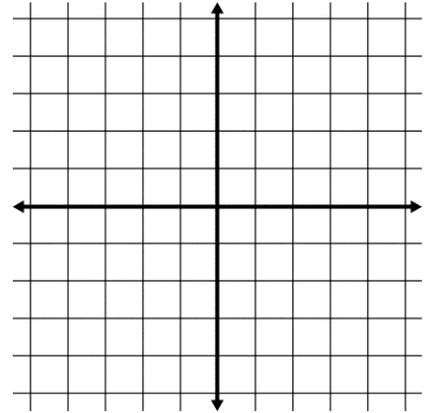
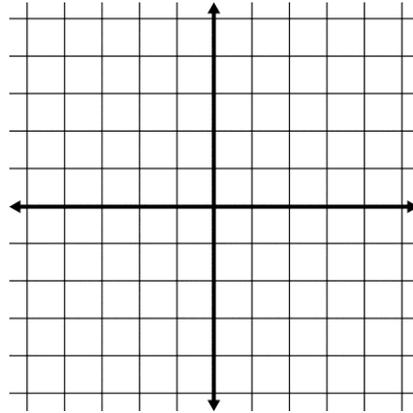
1. $f(-2) =$

2. $f(2) =$

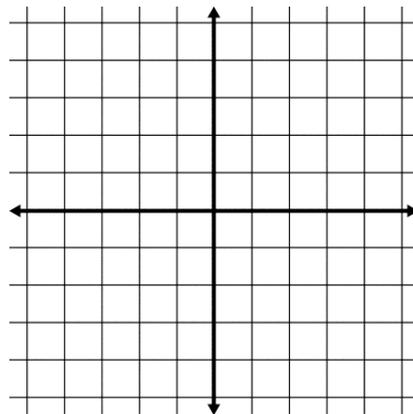
Graph each piecewise-defined function and give any points of discontinuity. Then find the domain.

$$f(x) = \begin{cases} x^2 & x \leq 0 \\ \sqrt{x} & x > 0 \end{cases}$$

$$f(x) = \begin{cases} x^2 + 2 & x \leq 0 \\ |x| & x > 0 \end{cases}$$

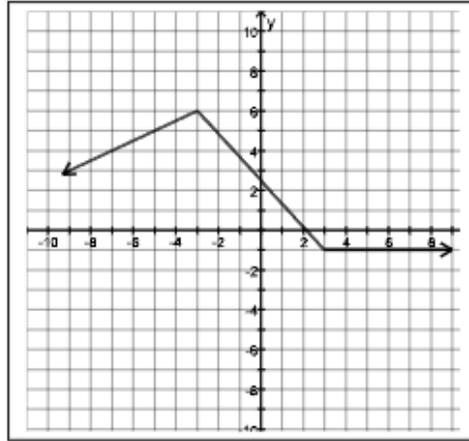


$$f(x) = \begin{cases} x & x < 0 \\ -2 & 0 \leq x < 2 \\ x+4 & x \geq 2 \end{cases}$$



Write the rule that defines the function in the following graph

2.



Write the function for each graph.

1.

