Evaluating Piecewise Functions

Ex. 1) f(x) = x2 -3

What is f(-3)?\_\_\_\_\_\_

What is f(7)?\_\_\_\_\_\_\_

What is f(2)? \_\_\_\_\_\_

Ex. 2) g(x) = $\left\{\begin{array}{c}x^{2}-3, x\leq 2 \\-2x+4, x>2 \end{array}\right\}$

What is f(-3)?\_\_\_\_\_\_

What is f(7)?\_\_\_\_\_\_\_

What is f(2)? \_\_\_\_\_\_

x

y

Graphing Piecewise Functions

Ex. 3) Graph the function g(x) from Example 2.

g(x) = $\left\{\begin{array}{c}x^{2}-3, x\leq 2 \\-2x+4, x>2 \end{array}\right\}$

x

y

Ex 4) Graph the following function:

h(x) = $\left\{ \begin{array}{c}\left|x+4\right| , x\leq -2 \\-3 , -2< x<2\\\sqrt{x}+5 , x\geq 2\end{array} \right\}$

What is h(-6)?\_\_\_\_\_\_

What is h(0)?\_\_\_\_\_\_\_

What is h(1)? \_\_\_\_\_\_

What is h(4)?\_\_\_\_\_\_\_

What is h(-2)?\_\_\_\_\_\_\_

What is h(2)?\_\_\_\_\_\_\_\_