

Algebra /

Graphing a piecewise-defined function: Problem type 1

Worked Examples:

Graphs and Functions
 Graphing a piecewise-defined function: Problem type 1

Suppose that the function g is defined, for all real numbers, as follows.

$$g(x) = \begin{cases} 3 & \text{if } x \neq 0 \\ 4 & \text{if } x = 0 \end{cases}$$

Handwritten notes: constraints, $y=3$ Horizontal line, $y=4$

Graph the function g .

Graphs and Functions
 Graphing a piecewise-defined function: Problem type 1

Suppose that the function f is defined as follows.

$$f(x) = \begin{cases} -3 & \text{if } -1 \leq x < 0 \\ -2 & \text{if } 0 \leq x < 1 \\ -1 & \text{if } 1 \leq x < 2 \\ 0 & \text{if } 2 \leq x < 3 \end{cases}$$

Handwritten note: called step function

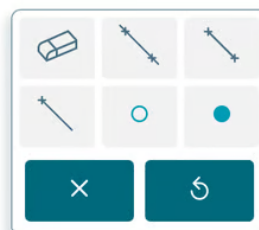
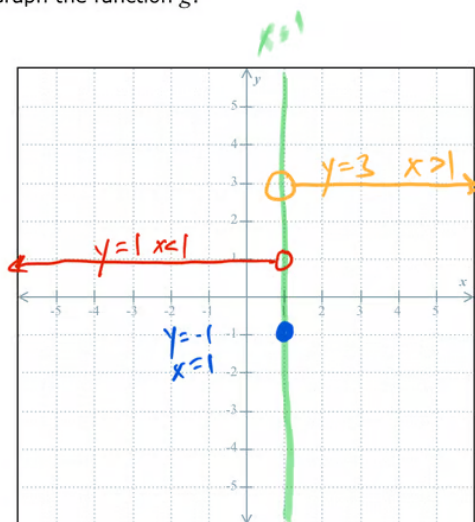
Graph the function f .



Suppose that the function g is defined, for all real numbers, as follows.

$$g(x) = \begin{cases} 1 & \text{if } x < 1 \\ -1 & \text{if } x = 1 \\ 3 & \text{if } x > 1 \end{cases}$$

Graph the function g .



#GraphsAndFunctions

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