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## Algebra /

# Graphing a piecewise-defined function: Problem type 2

## Worked Examples:



**Graphing a piecewise-defined function: Problem type 2**

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

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

Graph the function  $f$ . Then determine whether or not the function is continuous.

*Handwritten notes:*  $y = -5x + 3$   $m = -5$   $b = 3$   
 $y = x - 4$   $m = 1$   $b = -4$

Is the function continuous?  
☐ Yes  
☒ No

*Handwritten notes:* continuous on a graph  
 can you trace all of it  
 w/o picking up pencil?  
 can't have any jumps

Note: The Solve feature is not available to students.

Explanation Try Another Check Solve

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