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|  | **What is a Piecewise Function?** |
|  | How to **Evaluate** a Piecewise function |
|  | How to Graph a Piecewise Function |
|  | How to Write a Piecewise Function |

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| A piecewise function is a functions defined by \_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_ more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Each “piece” of the function applies to a different part of its  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_ value). | Example  *f(x)=*  Generic Graph.bmp |
| To \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a piecewise function, \_\_\_\_\_\_\_\_\_\_\_\_\_  the value of \_\_\_into the rule for the part of the  \_\_\_\_\_\_\_\_\_\_\_\_\_ that includes the value of x. | Evaluate the function *f* when (a) x=0 and (b) x=4  *f(x)=*    a: \_\_\_\_\_\_\_\_\_\_\_\_  b: \_\_\_\_\_\_\_\_\_\_\_\_ |
| To \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a piecewise function, do above steps  for evaluating a function, using multiple values for  \_\_\_\_\_. Graph each piece \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | *f(x)=*  Generic Graph.bmp |
| To \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a piecewise function, write a  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for each piece. | Generic Graph.bmp  Left Piece: When x \_\_\_\_0,  Right Piece: When x \_\_\_\_0, |