

# Download Absolute Value Functions And Graphs

Absolute values are never negative. Because of this, absolute-value functions have graphs which make sharp turns where the graph would otherwise have crossed the x-axis. Purplemath explains how these graphs work, and how to get full credit when doing this sort of graphing.

- [Instructor] So we're asked to graph  $f$  of  $x$  is equal to two times the absolute value of  $x$  plus three, plus two. And what they've already graphed for us, this right over here, this is the graph of  $y$  is equal to the absolute value of  $x$ . So let's do this through a series of transformations. So the ...

Graph absolute value functions like  $f(x)=|x+3|+2$ . If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains \*.kastatic.org and \*.kasandbox.org are unblocked.

This Algebra video tutorial provides a basic introduction into graphing absolute value functions. it explains how to graph absolute value functions the easy way using transformations and using ...

This video looks at graphing simple absolute value functions by hand. It includes three examples.

An absolute value function is a function that contains an algebraic expression within absolute value symbols. Recall that the absolute value of a number is its distance from 0 on the number line. The absolute value parent function, written as  $f(x) = |x|$ , is defined as  $f(x) = \begin{cases} x & \text{if } x > 0 \\ 0 & \text{if } x = 0 \\ -x & \text{if } x < 0 \end{cases}$

Page 1 of 2 2.8 Absolute Value Functions 123 To graph an absolute value function you may find it helpful to plot the vertex and one other point. Use symmetry to plot a third point and then complete the graph.

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