

# Download File PDF Graphing Absolute Value Functions

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About absolute value equations. Solve an absolute value equation using the following steps: Get the absolute value expression by itself. Set up two equations and solve them separately.

There is an easy procedure you can follow to graph absolute value equations: Plot the value of such that the expression inside the absolute value bars is . Plot one value less than that value. Plot one value greater than that value. Connect the dots.

Examples of Graphing Absolute Value Functions Example 1: Graph the absolute value function below using the table of values. This is the most basic form of an absolute value function. If you see that the only expression inside the absolute value symbol is just "x", assume that the vertex of the graph will occur when  $x = 0$ .

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Graphing Absolute-Value Functions (page 2 of 2) Without the absolute-value bars, the graph of the quadratic looks like this: The absolute-value bars will flip that negative part of the graph (the part in the middle, below the x-axis) up into the positive values (above the x-axis).

Graphing Absolute Value Functions. To see what the graph of  $y = |x|$  looks like, let's create a table of values. To graph these values, simply plot the points and see what happens. Whenever you have an absolute value graph, the general shape will look like a "v" (or in some cases, an upside down "v" as we will see later).

### Graphing Absolute Value Functions

Taking the absolute value of a negative number makes it positive. For this reason, graphs of absolute value functions tend not to look quite like the graphs of linear functions that you've already studied. However, because of how absolute values behave, it is important to include negative inputs in your T-chart when graphing absolute-value functions.

### Graphing Absolute-Value Functions | Purplemath

So hopefully that makes a little bit more intuitive sense of why if you replace x, if you replace x with x plus three, and this isn't just true of absolute value functions, this is true of any function, if you replace x with x plus three, you are going to shift three to the left.

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More generally, the form of the equation for an absolute value function is .Also: The vertex of the graph is . The domain of the graph is set of all real numbers and the range is when . The axis of symmetry is . It opens up if and opens down if .

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### Absolute Value Equation Calculator - MathPapa

Graphing an absolute value equation can be complicated, unless you know how to dissect the equation to find and use the slope and translations. Follow along as this tutorial shows you how to identify the necessary parts of the equation and use them to graph the absolute value equation.

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The graph of this basic absolute value function is a "V"-shaped graph with a vertex at the origin, or the point with coordinates . In terms of , or, alternatively written, The graph of is the same as that of , after it shifts 10 units left ( ), it flips vertically (negative symbol), and it shifts up 10 units (the second ).

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