

Pdf free Graphing absolute value functions (PDF)

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in this section we will investigate absolute value functions understanding absolute value recall that in its basic form $f(x) = |x|$ the absolute value function is one of our toolkit functions the absolute value function is commonly thought of as providing the distance the number is from zero on a number line

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the absolute value function can be defined as a piecewise function $f(x) = x$ if $x \geq 0$ $f(x) = -x$ if $x < 0$ using absolute value to determine resistance electrical parts such as resistors and capacitors come with specified values of their operating parameters resistance capacitance etc

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absolute value function this is the absolute value function $f(x) = |x|$ it is also sometimes written $\text{abs}(x)$ this is its graph $f(x) = |x|$ it makes a right angle at $(0, 0)$ it is an even function its domain is the real numbers its range is the non negative real numbers $[0, \infty)$ are you absolutely positive yes except when i am zero

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how to given an absolute value function solve for the set of inputs where the output is positive or negative set the function equal to zero and solve for the boundary points of the solution set use test points or a graph to determine where the function's output is positive or negative

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solving absolute value equations is as easy as working with regular linear equations the only additional key step that you need to remember is to separate the original absolute value equation into two parts positive and negative components below is the general approach on how to break them down into two equations

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in mathematics the absolute value or modulus of a real number denoted is the non negative value of without regard to its sign namely if x is a positive number and if x is negative in which case negating makes positive and for example the absolute value of 3 is 3 and the absolute value of -3 is also 3

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