

Inequalities and Absolute Value

Thursday, January 19, 2012
5:36 PM

Slides

Notes

The chalkboard interface features several navigation buttons: 'info lesson Lecture', 'helps lesson Note-Taking', 'Try It lesson Interactives and Labs', and 'help lesson Contact Me'. A callout bubble indicates 'Lecture mode autostarts in ... 5'. Another callout bubble states 'Table of Contents (TOC) is available'. A third callout bubble with a 'CC' icon says 'closed captioning is available'.

Inequalities and Absolute Value

$x \leq |-3|$
It acts like a conjunction

$x \geq |-3|$
It acts like a disjunction

The chalkboard displays two number lines. The first number line, representing $x \leq |-3|$, has a solid orange line from $x = -3$ to $x = 3$ with closed circles at both ends. The second number line, representing $x \geq |-3|$, has solid orange lines extending from $x = -3$ to the left and from $x = 3$ to the right, with closed circles at $x = -3$ and $x = 3$.

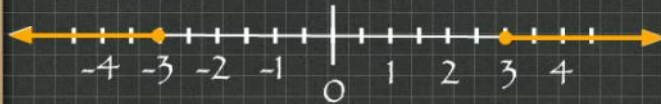
Now we will blend together inequalities with absolute values to see how those turn out. When we graph a less than and equal to, you end up with the same type of graph that you had when you learned about conjunctions.

What about when it is a greater than or equal to? Then you end up with the equivalent of a disjunction.

Match the inequality statement to the correct line graph.

$x \leq |2|$

$x \geq |2|$



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Congratulations!
You have completed
this topic

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this lesson if you wish...

