

## Graphing an equation (Tutorial B1)

[http://www.atomiclearning.com/k12/en/movie/27954/play\\_window?type=Tutorial&sid=1670](http://www.atomiclearning.com/k12/en/movie/27954/play_window?type=Tutorial&sid=1670)

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To graph an expression, insert the Graphs and Geometry application into a new page by pressing the Home key, and then choosing Graphs &

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Geometry. Next, make sure you're in Graphing view by pressing the Menu key, and then choosing View. Here, you can see that the

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Graphing View option is grayed out because it's the default view, and I'm in that mode. If it's black, choose it by pressing the

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Click key to enter Graphing view. Now, enter your expression at the bottom of the application. In this case, my expression is

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$x^2 - 6x - 5$ , so I'll enter "x," then press the " $x^2$ " key, and then enter "-6x-5." To plot this graph, I'll press the Enter key on

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the keypad. Here, you can see that I'm only seeing a portion of this graph, so I'm going to reposition the graph so that I can

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see more of the parabola. I'll press Esc to show the pointer, and then I'll move my pointer into a blank area of the graph using

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the NavPad. Now, I'll select the Grab tool by pressing and holding the Click key for a little less than a second. I'll use the arrow

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keys on the NavPad to drag. This allows me to move the graph around on this work area, much like grabbing a piece of paper on a desk

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and moving it around. Once I've got the graph where I want it in the work area, I'll press Esc to let it go. Let's plot another

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expression. I'll use the arrows and the Click key on the NavPad to click the Entry Line at the bottom of the Graphs and Geometry

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application and enter " $x^2$ " as my new expression, and then press Enter. Now, I've got these two graphs that overlap each other.

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I'd like to change the attributes of the  $x^2$  parabola to make it easier to differentiate. I'll press the Menu key, and then

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select Actions, followed by Attributes. Now, I'll roll my pointer over the " $x^2$ " parabola until it turns into an arrow pointing

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left, and then I'll click on it. I can see a list of the attribute options for this curve. I'll use the down arrow key to move to

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the second option in the list, which determines the continuity of the line. Now, I'll press the right arrow key to move to the

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dashed line option, and then press Enter. Now it's easy to identify the curve for " $x^2$ ." To demonstrate another way to change the

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attributes of an expression, let's change the continuity of the other curve as well. I'm going to click on the expand icon in

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the lower right corner to reveal my two expressions. Notice that there are two icons to the left of both expressions. The first

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one, which looks like an eyeball, allows me to quickly hide or reveal the curve for the expression. The second one will change

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curve attributes, so I'll use the arrows on the NavPad to highlight this button to the left of the expression " $x^2-6x-5$ ," and then

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I'll press Enter. Notice that the attributes pop right up next to the curve. Now, just as I did with the other curve, I'll press

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the down arrow key on the NavPad and move to the second option in the list, then I'll press the right arrow key to move to the

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dotted line option, and then press Enter. Finally, I'll just press Esc to hide the expressions.

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