

Graphing an equation (Tutorial B1)

http://www.atomiclearning.com/k12/en/movie/85845/play_window?type=Tutorial&sid=2410

[00:00:00.00]

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

[00:00:07.00]

the Graphs icon. Enter your expression at the bottom of the application. In this case, my expression is x^2-6x-5

[00:00:18.00]

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

[00:00:34.00]

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

[00:00:42.00]

graph so I can see more of the parabola. I'll move my pointer into a blank area of the graph using the Touchpad. Now,

[00:00:50.00]

I'll select the Grab tool by pressing and holding the Click key for a little less than a second. I'll drag my finger

[00:00:57.00]

across the Touchpad. This allows me to move the graph around on this work area, much like grabbing a piece of paper

[00:01:03.00]

on a desk and moving it around. Once I've got the graph where I want it in the work area, I'll press Esc to let

[00:01:11.00]

it go. Let's plot another expression. I'll press the Tab key to reveal the Entry Line at the bottom of the Graphs

[00:01:18.00]

application. Note that if you have a slider, you'll have to press the Tab key more than once to open the Entry Line.

[00:01:25.00]

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

[00:01:36.00]

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

[00:01:45.00]

and then select Actions, followed by Attributes. Now, I'll roll my pointer over the "x^2" parabola until it turns

[00:01:55.00]

into an arrow pointing left, and then I'll click on it. I can see a list of the attribute options for this curve.

[00:02:03.00]

I'll use the down arrow key to move to the second option in the list, which determines the continuity of the line.

[00:02:09.00]

Now, I'll press the right arrow key to move to the dashed line option, and then press Enter. Now it's easy to identify

[00:02:18.00]

the curve for "x^2." To demonstrate another way to change the attributes of an expression, let's change the continuity

[00:02:26.00]

of the other curve as well. This time I'm going to press Control-G to open the entry line, then I'll press the right

[00:02:35.00]

arrow key to highlight the double arrow on the right. When I press the Click key, I'll reveal my two expressions. Notice

[00:02:44.00]

that there are two icons to the left of both expressions. The first one, which looks like a checkbox, allows me

[00:02:50.00]

to quickly hide or reveal the curve for the expression. The second one will change curve attributes, so I'll use



TI-Nspire™ Handheld Script

[00:02:57.00]

the Touchpad to highlight this button to the left of the expression " x^2-6x-5 ," and then I'll press the Click key.

[00:03:06.00]

Now, just as I did with the other curve, I'll press the down arrow key on the Touchpad and move to the second option

[00:03:12.00]

in the list, then I'll press the right arrow key to move to the dotted line option, and then press Enter. Finally,

[00:03:21.00]

I'll just press Esc to hide the expressions.

[00:03:25.00]