## ALGEBRA I ACTIVITY 1:

 Binomial MultiplicationTlalgebra.com

## ACTIVITY OVERVIEW:

In this activity we will

- Enter an expression showing the multiplication of two binomials into Y 1 in an equation that can be graphed.
- Multiply the binomials and enter the result into Y2 to verify that the graph remains the same.
- Combine like terms and enter the result into Y3 to verify.

| First start by entering the expression shown in the $Y$ menu. |  |
| :---: | :---: |

Next, press WINDOW and set to the Zoom 6 Standard.


1: ZBox

Now graph the equation by pressing the GRAPH key.


Go back to the $Y=$ menu and distribute like terms.

Backspace all the way to the left with the left arrow key and
then press ENTER until a thick, bold line is displayed
Press the GGAPH key and notice a thicker curve graphs on top
of the original curve. This proves that the equations are
equal, since both representations generate the same graph.
Go back to the 目 menu, combine like terms and enter your
new expression into $\mathrm{Y}=$. Then backspace all the way to the
left and press ENTER until the trail appears.

