

TI Apps Demonstration:

Transformation Graphing App

For the TI-83 Plus and TI-83 plus Silver Edition



Exploring the Translation Of A Linear Function

This App helps students improve graphing comprehension. By simply inputting functions, students can view changes in the function as the parameters change. This means they have a visual diagram of the function, allowing them to visually draw conclusions.

equal 3. At this point, STEP = 1 (don't

worry about this right now).

Plot1 Plot2 Plot3 MY1=■ MY2= MY3= MY4= MY5= MY6= MY7=	1 Press APPS, highlight Transfrm Press ENTER Press any key	A=2 BB	5 Press GRAPH. The function 2X+3 appears on the screen as well as one solution, A=2 and B=3.
Plot1 Plot2 Plot3 WY18AX+B WY2= WY3= WY5= WY6= WY7=	2 Press (Y=). In Y1, enter AX+B. Press (ALPHA) [A] (X,T,O,n) + (ALPHA) [B], the equation for a general linear function.	A=2 83-5	6 From this screen, change the value of B by 1 by pressing () (change the function to y=2X+2, $y=2X+4$, etc. – remember on a previous screen STEP = 1 – that was the change in value of the highlighted variable each time). Using (), explore what happens to the function when the value of B changes
WINDOW Xmin=-10 Xmax=10 Xscl=1 Ymin=-10 Ymax=10 Yscl=1 Xres=1	3 Press WINDOW and make the following changes using the cursor key ►: Xmin= -10 Xmax=10 Xscl= 1 Ymin=-10 Ymax=10 Yest= 1	AB0 B=-5	 B changes. 7 Explore what happens to the function when the value of A changes. Using ▲, highlight A. Then use ▲ > to change the value of A in STEPs of 1.
WINDOW Samplify H=2 BB3 Step=1	4 To set some initial conditions for the function (define A and B), press WINDOW and cursor to highlight SETTINGS. Scroll until the cursor is flashing on the value for A. Press ②. This will set the initial value of A to equal 2. Scroll again until the cursor is flashing on the value for B. Press ③. This set the initial value of B to 		