

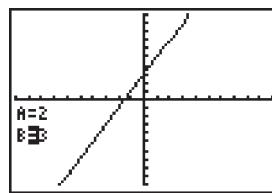
Transformation Graphing App

TI-84 Plus

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.

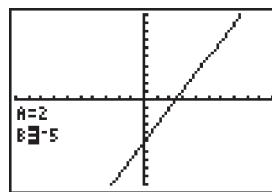
1

In the Apps menu, use $\boxed{\Delta}$ $\boxed{\nabla}$ to highlight Transfrm, and press **[ENTER]**. Press any key.



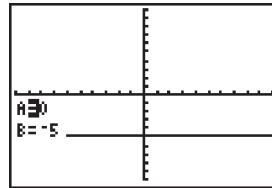
5

Press **[GRAPH]**. The function $2x+3$ appears on the screen as well as one solution, $A=2$ and $B=3$.



6

From this screen, change the value of B by 1 by pressing $\boxed{\Delta}$ $\boxed{\nabla}$ (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 $\boxed{\Delta}$ $\boxed{\nabla}$, explore what happens to the function when the value of B changes.



7

Explore what happens to the function when the value of A changes. Using $\boxed{\Delta}$ $\boxed{\nabla}$, highlight A . Then use $\boxed{\Delta}$ $\boxed{\nabla}$ to change the value of A in STEPS of 1.

Plot1 Plot2 Plot3
MY₁=**AX+B**
MY₂=
MY₃=
MY₄=
MY₅=
MY₆=
MY₇=

WINDOW
Xmin=-10
Xmax=10
Xscl=1
Ymin=-10
Ymax=10
Yscl=1
Xres=1

WINDOW SETTINGS
A=2
B=3
Step=1

3

Press **[WINDOW]** and make the following changes as needed, using the arrow keys to navigate:
Xmin = -10
Xmax = 10
Xscl = 1
Ymin = -10
Ymax = 10
Yscl = 1

4

To set some initial conditions for the function (define A and B), press **[WINDOW]** and cursor $\boxed{\nabla}$ to highlight **SETTINGS**. Scroll $\boxed{\nabla}$ until the cursor is flashing on the value for A . Press **[2]**. This will set the initial value of A to 2. Scroll $\boxed{\nabla}$ again until the cursor is flashing on the value for B . Press **[3]**. This sets the initial value of B to 3. At this point, $STEP = 1$ (don't worry about this right now).