

# Pre-Algebra Activity 1: Creating Dynamic Graphs: A Linear Activity

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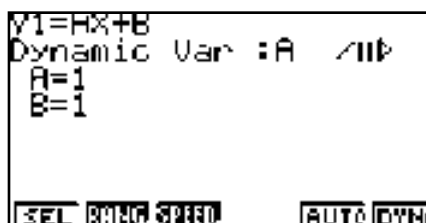
CALCULATORS: Casio: fx-9750G Plus • Casio: cfx-9850G Series

## Student Handout

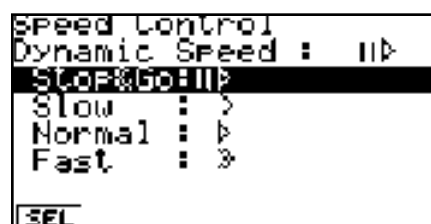
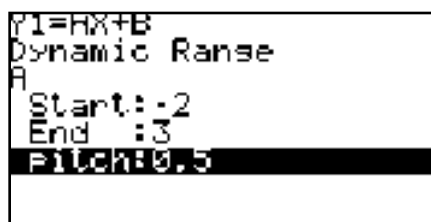
Dynamic graphs can be a powerful tool to help Pre-Algebra and Algebra you understand the role of the variables in linear and quadratic functions.

### Linear Functions of the form $Y = AX + B$

To draw a dynamic graph of a linear function, choose **DYNA** from the main menu. Select **F5** (B-IN), select **Y = AX + B**. Choose the initial viewing window. To display the coefficient menu press **F4**(VAR).



Select A as the dynamic variable, let  $B = 0$  (enter 0 at  $B =$  and EXE) and press **F2**(RANG). Start at -2 EXE, End at 3 EXE, and pitch 5 EXE. Press **F3**(SPEED). Stop and Go works well because you are able to control the speed that the graph moves. Press **EXIT** to leave the speed control screen.

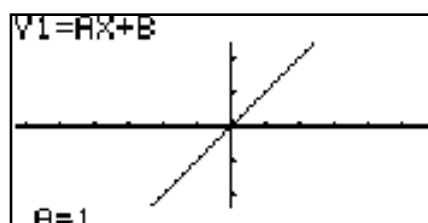
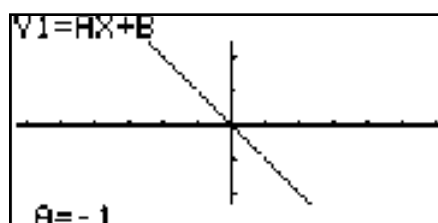
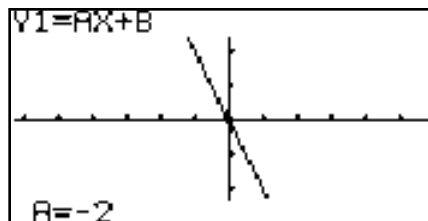


# Pre-Algebra Activity 1: Creating Dynamic Graphs: A Linear Activity

*continued*

## Student Handout

Press **F6**(DYNA) and wait to view the graph. Press **EXE** to move to the next graph.



You can discover the role of the slope (A) in the function by observing the change in the graph as the value of A changes. Likewise, by selecting B as the dynamic variable, they can discover the role of the y-intercept (B).

