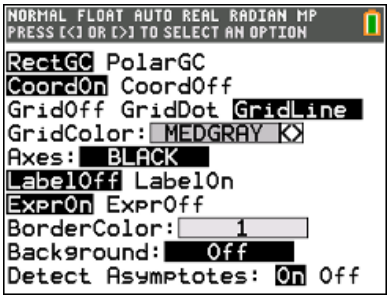
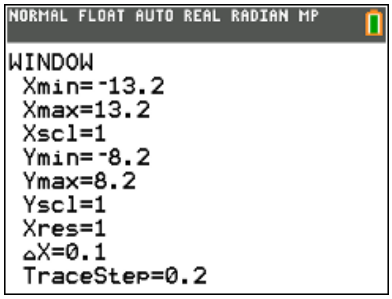
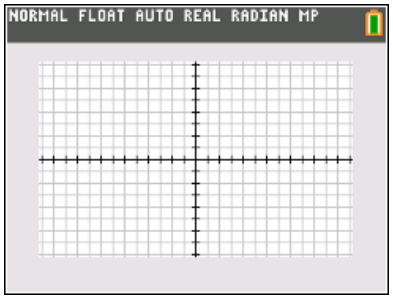
Graphing Lines on the TI-84+ CE

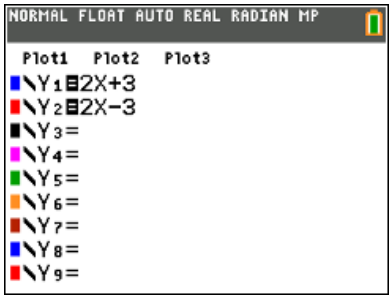
1. Set up the window with gridlines ON (press **2nd** **window** for **format**), then double the ZoomDecimal window (press **Zoom** and choose **4:ZDecimal** then edit the **window** as shown).



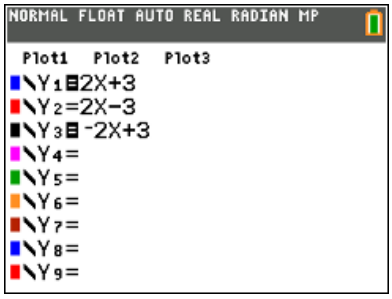




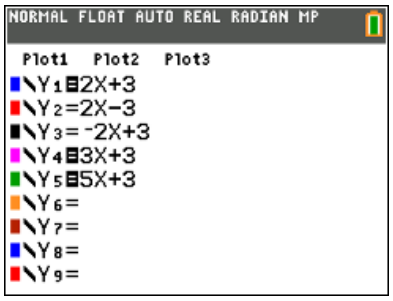
2. Press **Y=** and enter these equations. Then view the graphs. What is the same and what is different about them?



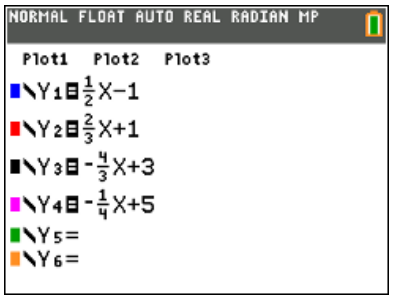
3. Deactivate Y2 and enter this into Y3. (Move the cursor onto the = sign and press **enter**).
What is the same and different about the graphs of Y1 and Y3?



4. Deactivate Y3 and enter these into Y4 and Y5.
What is the same and different about the graphs of Y1, Y4 & Y5?



5. Clear all the equations and enter these. (Press **alpha** **Y=** to access the fraction template).
What can you say about the slope of each? Can you visualize the slope on the graph?



6. Clear Y2, Y3, and Y4, but keep $Y1 = \frac{1}{2}x - 1$. Think of all the ways you could enter this equation on the calculator. Try them out in Y2, Y3, etc. to see if they graph correctly. Which don't work at all? Which are correct but misleading? Which do you prefer?