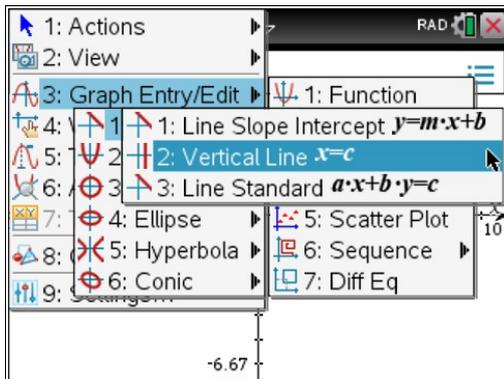


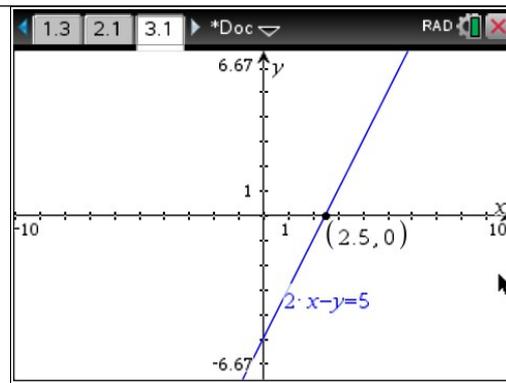
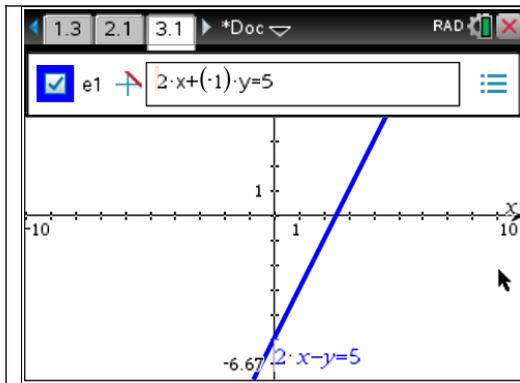
Sketching straight lines on TI Nspire CAS:

You can select which form of the straight line you wish to sketch. In Graph screen, Menu Graph Entry

1: Line:

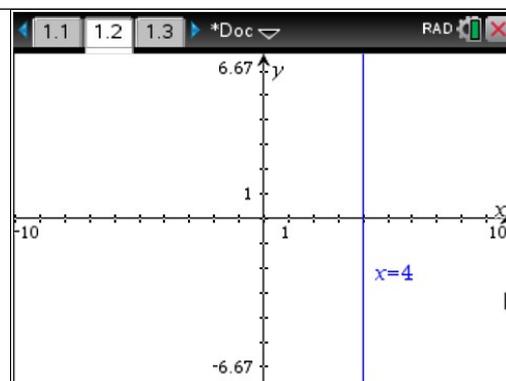
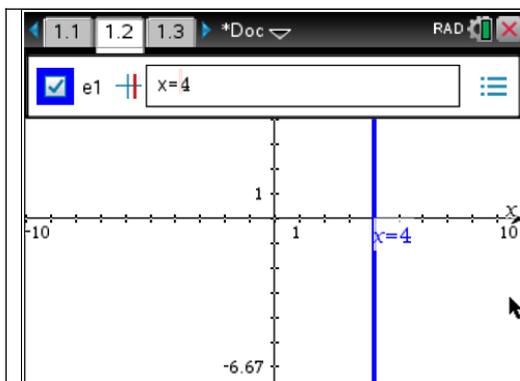


The first option allows drawing straight lines in gradient-y intercept form.



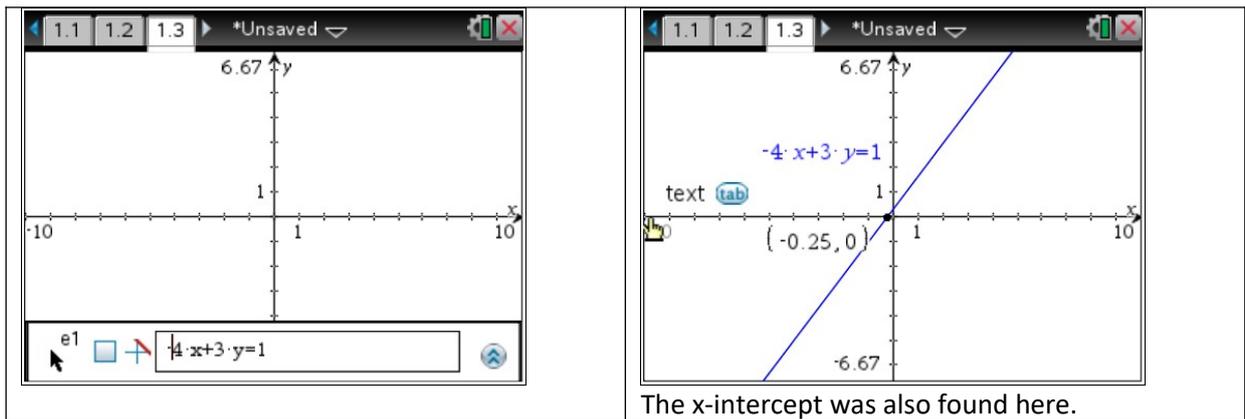
The x-intercept was also found here.

The second option allows drawing vertical lines:

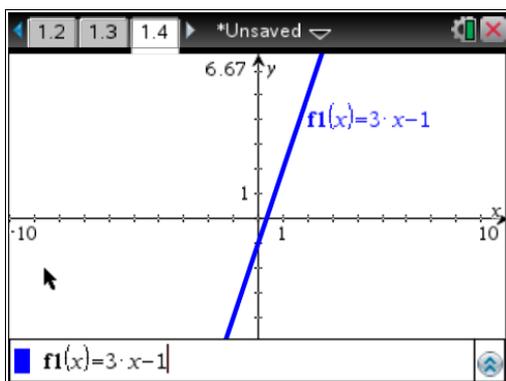


C

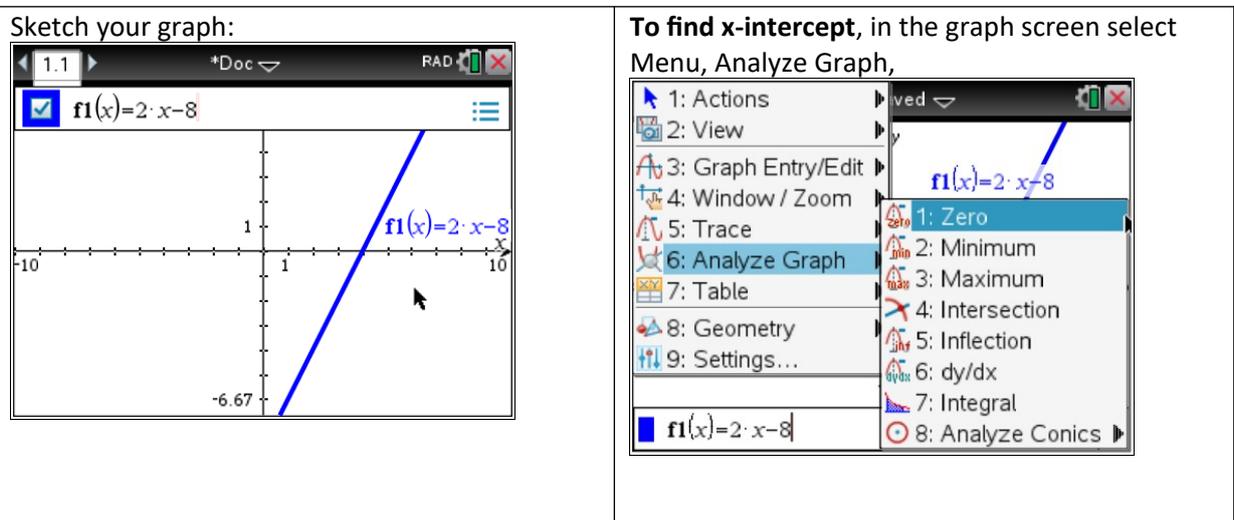
The third option allows drawing straight lines given in general form.



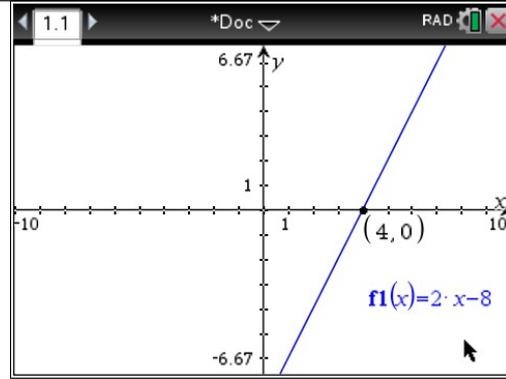
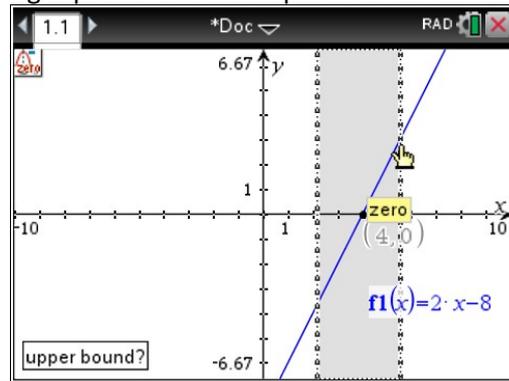
You can sketch the straight line in gradient-intercept form by just selecting f1(x)=



To find axes intercepts:

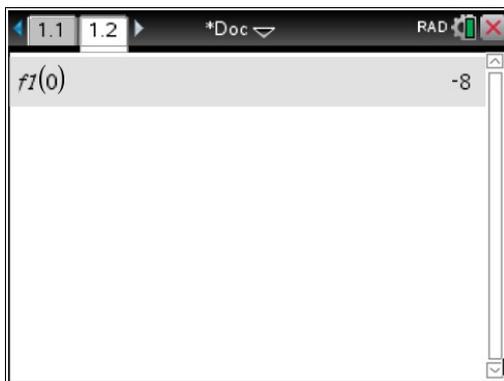


Now move the vertical line anywhere to the left of the x-intercept, enter, then move it to the right past the x-intercept and enter.



The x-intercept is (4,0)

To find the y-intercept in the Calculator screen type $f1(0)$



The y-intercept is (0,-8)

Using Trace, Graph Trace allows to find the y-intercept in the Graph screen:

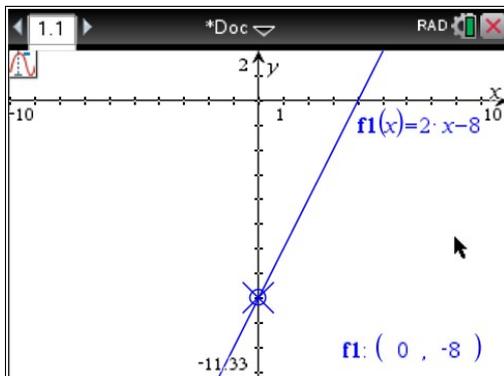
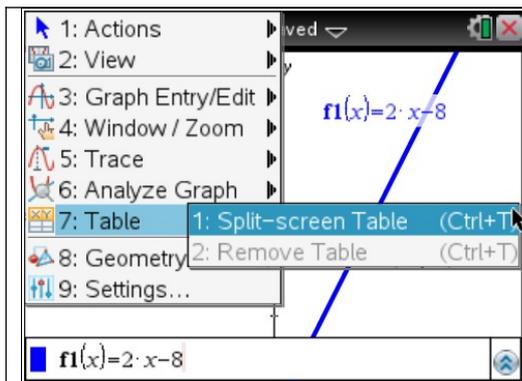
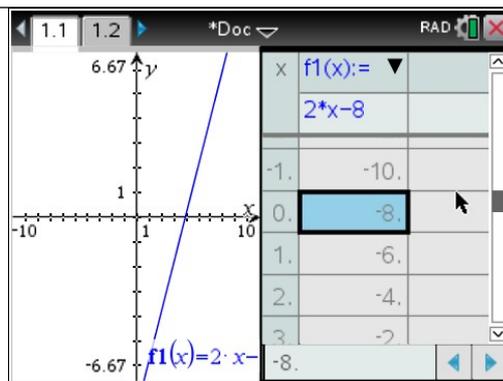


Table of values in a Graph Screen:

You can see the table of values for your function in a graph screen by selecting:



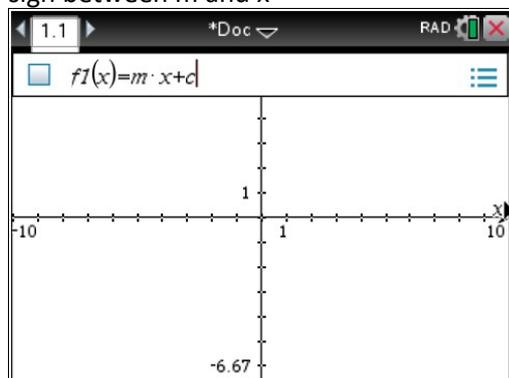
Alternatively Ctrl T.



Which also shows the y-intercept as (0,-8) and the x-intercept (4,0). You can scroll up and down to see more values. To delete table either Menu Table 1: Remove table or Ctrl T.

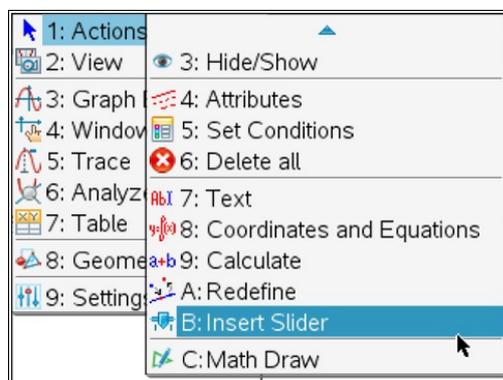
Graphing straight lines with sliders.

In a new Graph screen type $y = mx + c$ with times sign between m and x

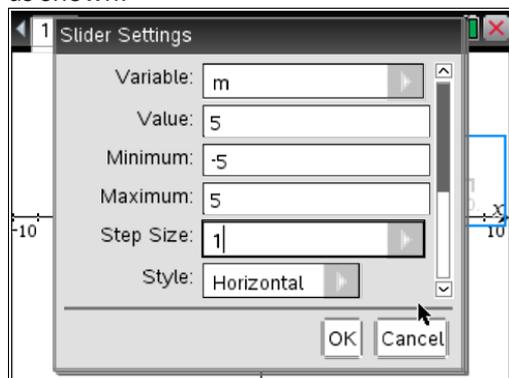


Press enter, no graph as no values are assigned to gradient and y-intercept

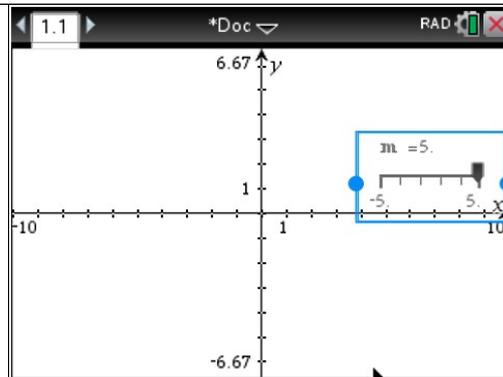
To insert slider select Menu, Action, Insert Slider, enter



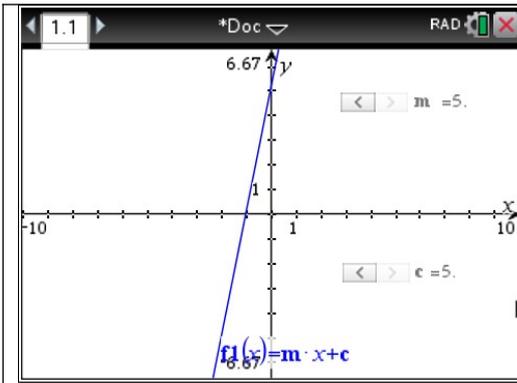
This screen will appear, change v to m and values as shown:



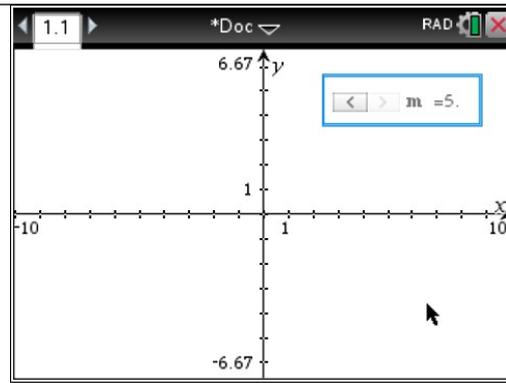
Repeat the above steps to insert the slider for c :



Place your cursor over the slider, ctrl Menu, Minimise



Vary the values of m , then vary the values of c .



To animate (one slider at a time), ctrl Menu. Animate. To stop animation, ctrl Menu, Stop Animate.