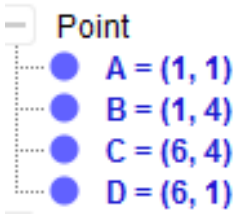
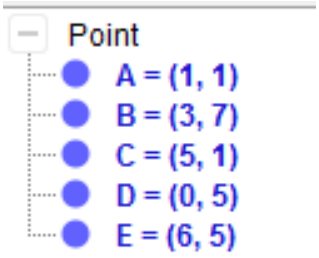
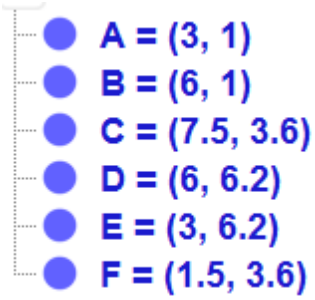
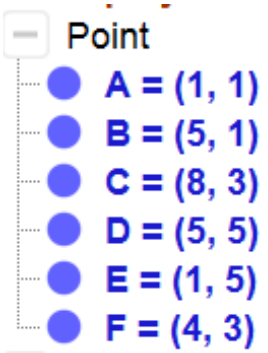
Relations on the xy plane

Name:……

On the grid, plot the following sets of points. You can plot the points with the 'points tool' or you can enter them into the input bar as A=(1,1). Use the the polygon tool to join the points – join them in alphabetical order. Join the last point to the point A.

Sketch your results overleaf, and comment on any observations. Reset the diagram between each task.

1  	5 Click on the 'slider tool'. Set values from 0 to 10, with increment 1 Now enter the point A=(a,2a) to the input bar. Slide the slider. Right click on the point and select 'trace on' to see all 11 points plotted at once.
2  	6 Now edit the point A=(a,sqrt(a)) Slide the slider! Now enter the point B=(a, -sqrt(a)). What do you suppose the 'sqrt' command means?
3  	7 Right click on the slider tool (or delete and start again) to open settings. Set minimum to -8, maximum to 8. Now enter the point A=(a, a^2) Slide the slider! (Probably use the four arrow tool to drag the y axis down to see higher values of y).
4  	8 Now right click on the slider to set the increment to 0.1 enter the points A=(a,3a-4) B=(a, 3a) C=(a, 3a+4) D=(a,-3a-4) E=(a,-3a) F=(a,-3a+4) to the input bar. (press enter after each point) Turn 'trace on' and Slide the slider.

1	5
2	6
3	7
4	8

Use the slider tool to make up your own relation.