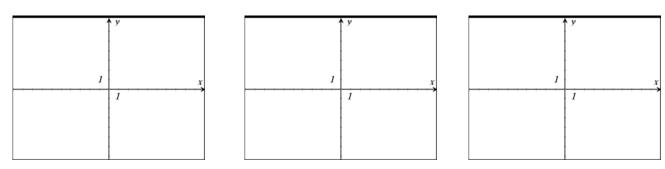
# Slope Activity Worksheet

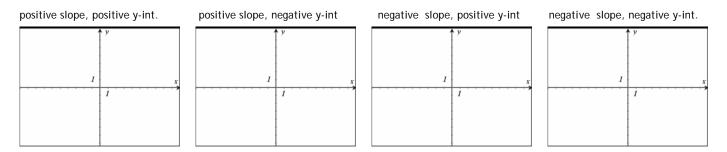
### Problem 1

Sketch a few lines that you created on the Nspire. Write the equations of the lines and demonstrate the relationship between the slope of the line and the rise and run of the line.



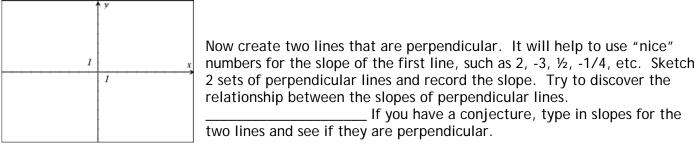
## Problem 2

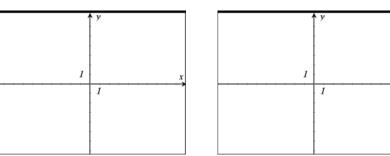
Graph f1(x)=x. Rotate and move the line, observing the slope and y-intercept. Sketch four lines that you created on the Nspire and write their equations. Make sure each line fits the correct category.



## Problem 3

Rotate the 2 lines on this graph to create parallel lines. What do you notice about the slopes of the two lines? \_\_\_\_\_\_ You can click in the equations and type in whatever numbers you choose to test your conjecture. Sketch a graph of parallel lines and write their equations.





### Problem 4

This last problem helps you more thoroughly understand the relationship of the slopes of perpendicular lines.