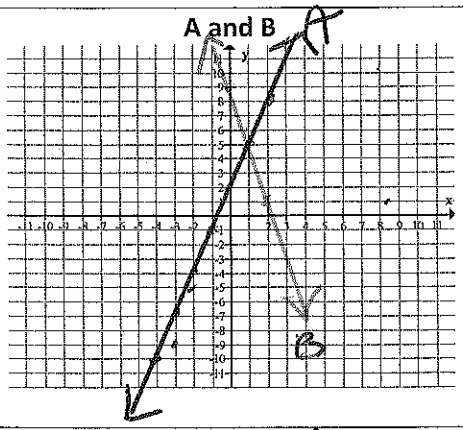
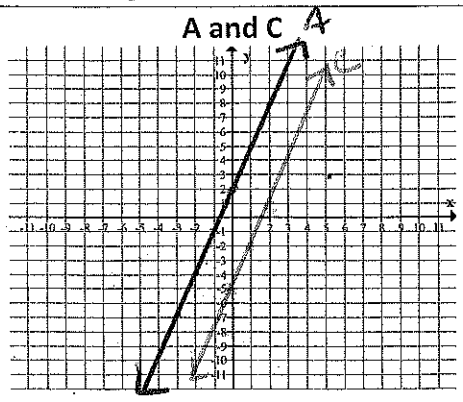
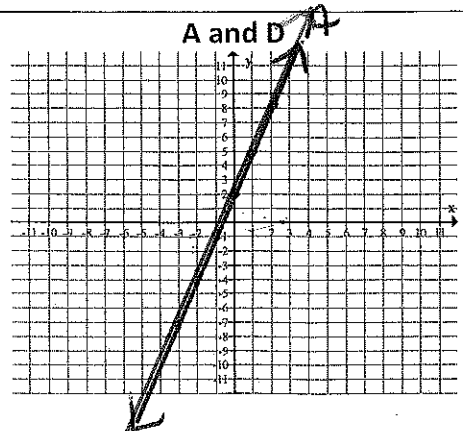
Name: Key Date: Period:

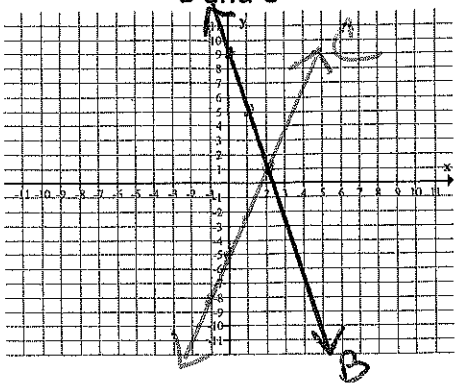
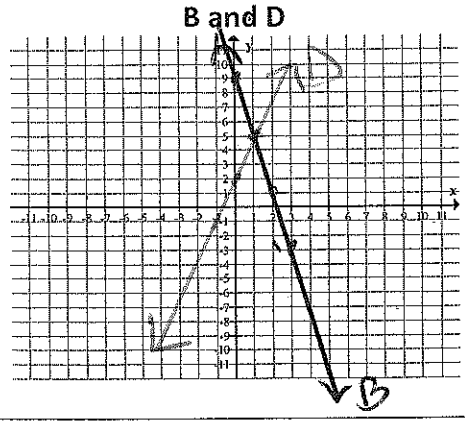
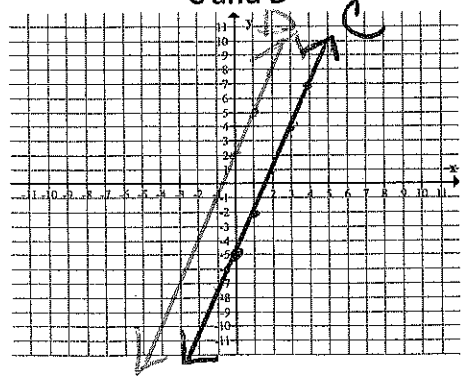
Line Dancing Recording Sheet

Work with your group to complete the following. Record the equations in *slope-intercept form* of lines A, B, C, and D below.

A: $y = 3x + 2$ B. $y = -4x + 9$ C: $y = 3x - 5$ D. $y = 3x + 2$

Use a graphing calculator to ~~help you complete~~ look at both of the tables

Compare the lines listed below and sketch the graphs.	Do the lines have any points in common? If so, what are the coordinates of the common points?	Are any ordered pairs the same in both tables? If so, which?	How are the equations similar
A and B 	Yes (1,5)	Yes (1,5)	The have (one) the point (solution) (1,5) in common - the intersection → Not similar
A and C 	No	No	They are parallel so they have the same slope
A and D 	Yes all points	Yes all points	They are the same equation

Compare the lines listed below and sketch the graphs.	Do the lines have any points in common? If so, what the coordinates of the common points?	Are any ordered pairs the same in both tables? If so, which?	How are the <u>equations</u> similar
B and C 	Yes (2, 1)	Yes (2, 1)	(solution) One point in common (2, 1) → Not similar
B and D 	Yes (1, 5)	Yes (1, 5)	(solution) One point in common (1, 5) → not similar
C and D 	No	No	→ same ~~equation~~ slope