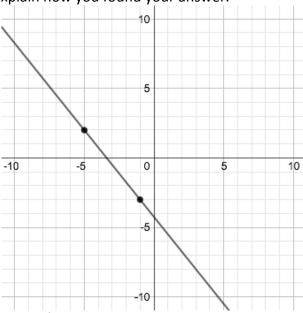
Name:		Class:	Da	ate:
	Explori	ng Point-Slope Fo	rm of a Line	
	on of a line in point-slon n an equation in point	ppe form, given the g		
1. Explore the poin	t-slope screen for 5 mi	nutes.		
2. Manipulate parts	s of the equation <i>or</i> gr	aph and describe the	effects of each ac	tion.
Action	Action on	How the equ	uation is affected	How the graph is affected
Drag the pink poi	☐ The equati ☑ The graph	on		
	☐ The equati☐ The graph	on		
	☐ The equati☐ The graph	on		
	☐ The equati☐ The graph	on		
	☐ The equati☐ The graph	on		
	in the equation $y - y_1 = 0$			
5. Complete the tal	ole below.			
How can you Ex	Explain what you changed		What other cha	nges did you notice?
Make a line steeper?				

Transform a line

without changing the

slope?

6. Write the equation (in point-slope form) of the line below. Explain how you found your answer.



7. Describe how you would graph a line with the equation $(y-3)=\frac{5}{2}(x+4)$ and graph it on the grid provided.

