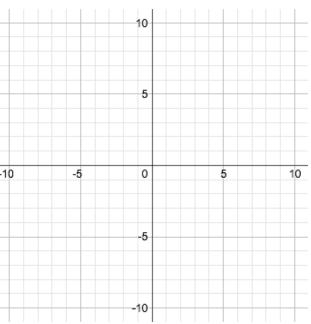
Name:		_ Class: Da	ate:	
Exploring Slope-Intercept Form of a Line Learning Goals				
 Identify the slope and y Write the equation of a Graph a line given an ec 	line in slope-intercept	form		
Activity				
1. Explore the slope-interd	ept screen for 5 minut	es and think of 1–3 questions or	observations.	
2. Manipulate parts of the equation or graph and describe the effects of each action below.				
Action	Action on	How the equation is affected	How the graph is affected	
Increase the numerator of m	☑ The equation ☐ The graph			
	☐ The equation☐ The graph			
	☐ The equation☐ The graph			
	☐ The equation☐ The graph			
	☐ The equation☐ The graph			
3. Pair-Share: Compare yo you didn't.4. Describe how <i>m</i> in the example of the compare you have a supplied to the compare you have you have you have you have a supplied to the compare you have yo		our partner. Describe an action to	that your partner took that	

5. Describe how **b** in the equation y = mx + b relates to the graph.

6. Complete the table below.

How can you	Explain what you changed	What other changes did you notice?
Make a line steeper?		
Make a line less steep?		
Shift a line up?		
Shift a line down?		

7. Without using the sim, describe how you would graph a line with the equation $y = \frac{1}{5}x - 2$ and graph it on the grid provided.



8. Describe how you would graph any line with the equation y = mx + b.