NAME

Interpreting Changes in Slope and Intercepts – Day 3

The graph shown contains the points (-4, 2) and (4, 6). Use this graph for problems 1 - 5.



_3. Which graph best represents this line if the slope is doubled and the y-intercept is halved?



The graph shown contains the points (-4, 2) and (4, 6). Use this graph for problems 1 - 5.



Mini Murder Mystery

One of the following 6 people has murdered one of the others. Each has made 4 statements about the graphs below. The murderer made 3 false statements; the victim made 0 false statements. The other suspects made 1 or 2 errors.

Ham Burglar says	Isabell Ringing says
Line 1 is steeper than line 3	The slope of line 3 is 2
The rate of change of y with respect to x	 Line 4 is less steep than line 1
for line 1 is 2.	 Line 3's y-intercept < line 2's y-intercept
 Line 2's y-intercept > line 4's y-intercept 	 Line 4 is parallel to the linear parent
• (2, 3) is on line 1	function
Annie Mossity says	Paige Turner says
Lines 1 & 2 are perpendicular	 Line 1 is steeper than line 2
Line 4 is less steep than line 3	 Line 3 passes through the origin
• (0, -1) is on line 1	 Lines 1 & 2 intersect in Quadrant I
 The x-intercept of line 3 is (0, 1) 	 (0, 2) and (2, 0) are both on line 2
Gill T. Ascharged says	Hurlock Shomes says
 (-4, -1) is on lines 3 and 4 	 The y-intercept of line 3 is 1
Lines 2 & 4 are perpendicular	The slope of line 3 is 0.5
• (0, -3) is on line 4	 Line 2 is the only line that is decreasing
 The y-intercept of line 2 is (-2, 0) 	 (20, 11) would be on line 3

Write the equation of each line:



Line 2: y = ___



Line 3: y = _____

