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Name: Date:	_
STRANGE LINES - VERTICAL AND HORIZONTAL	
Although they don't fit the classic linear model, it is important to understand how we write en horizontal and vertical lines. The first exercise will illustrate the idea. Never forget, though, the create an equation for a curve, it simply describes what all points on the curve share in common	at when we
Exercise #1: Shown below are a horizontal line and a vertical line.	
HORIZONT AL LINE  M-VERTICAL LINE  Write down two coordinate points:  What do they share in common?  What do they share in common?  Y-COVANALE F  What is this line's equation?  What is this line's equation?	
Equations of horizontal lines and vertical lines are 50 simple that students will often get them con because they don't really seem like typical linear equations (because they aren't).	ifused later,
HORIZONTAL AND VERTICAL LINES	
Horizontal Line: y = constant Vertical Line: x = constant	
(Constants can be determined by using any point the line passes through)	
Exercise #2: Which of the following equations represents a vertical line that passes through the point (1) $y = -3$ (3) $y = -3x + 5$ (4) $y = 5x - 3$	
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6 It is important to be able to quickly and accurately graph vertical and horizontal lines as well as give their equations based on their graphs. We will try to build some fluency with this in the next exercise. Exercise #3: For each of the following, give the equation of the line shown or described. (a) (b) EQUATION: EQUATION: EQUATION: (d) (e) (0) EQUATION: EQUATION: EQUATION: (g) The equation of a vertical line passing through (h) The equation of a horizontal line passing the point (-4, 5). through the point (3, 2) Exercise #4: Sketch the region bounded by the three lines whose equations are given below. Label each with its equation. Find the area of the triangular region enclosed by the lines. You may want to use your calculator to create a table of values of the first line or simply use facts about the slope and p-intercept.