## Class Worksheet 2/1 - 2/3

**Example 1:** Which of the tables of values below could represent a linear function? For those which could, find a formula for the function.

	$x \setminus y$	0	3	6
	0	1	-4	-9
	2	4	-1	-6
	4	7	2	-3
`	6	10	5	0
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**Example 2:** Which of the following contour plots could represent a linear function? For those that could be linear, find a formula for the function.



**Example 3:** Sketch a contour diagram of  $z = \sqrt{x^2 + y^2}$ . (Draw at least four marked contours.) How does the diagram differ from the contour diagram of the paraboloid  $z = x^2 + y^2$ ?