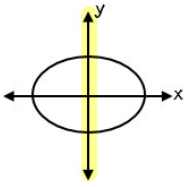
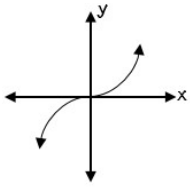
Unit: Functions
Homework 1

Name _____
Date 2212 Pd 5

IDENTIFYING FUNCTIONS

Use your knowledge of functions to complete the table below. Identify whether or not each representation is a function, and be sure to justify your answer.

RELATIONSHIP	FUNCTION?	JUSTIFICATION
1. <table><tr><td>x</td><td>-3</td><td>-1</td><td>1</td><td>3</td></tr><tr><td>y</td><td>10</td><td>2</td><td>2</td><td>10</td></tr></table>	Yes	No x value repeats
2. $y = -3x^2 + 10$	Yes	We don't have y^2
3. 	No	it does not pass the vertical line test
4. repeats {(-3, 0), (13, 4), (6, 3), (13, -4), (22, 5)}	No	the x value 13 repeats
5. $x^2 + y^2 = 100$	No	We have y^2
6. 	Yes	it passes the vertical line test
7. <table><tr><td>x</td><td>25</td><td>25</td><td>36</td><td>36</td></tr><tr><td>y</td><td>5</td><td>-5</td><td>6</td><td>-6</td></tr></table>	No	all x value repeats