Imaginary Numbers Period: Date:	-axis.		
	-axis.		
	-axis.		
Essential Question: Describe the solutions to a quadratic that does not intersect the x-axis.			
Questions: Notes:			
Big Idea #1: The set of REAL numbers contains all of the <u>rational</u> <u>irrational</u> numbers.	and		
Examples of rational numbers :			
Everyples of irretional numbers:			
Examples of irrational numbers :			
Solve using the quadratic formula: $y = x^2 - 6x + 13$			
What do you notice about the solution?			

A mathematician named Euler defined a new number: $i = \sqrt{-1}$. This is an imaginary number .	
i = i ² =	
Simplify: 1. $\sqrt{-25}$	2. $\sqrt{-64}$
3. $\sqrt{-50}$	4. $\sqrt{-8}$
5. $-3\sqrt{150}$	 √24
7. √ <u>−20</u>	8. $\sqrt{-60}$



