ALGEBRA II Chapter 4 section 6 Perform Operations with Complex Numbers pg. 275

FOCUS:

How do you perform operations on complex numbers?

VOCAB:

Imaginary unit i:		

Complex number:_____

Imaginary number:_____

Complex conjugates:_____

Complex plane:_____

Absolute value of a complex number:_____

WARM – UP:

Simplify.	Solve the equation.	
1. $\frac{3}{4-\sqrt{5}}$	2. $2(x + 7)^2 = 16$	3. $3x^2 + 8 = 23$

4. Three times the square of a number is 15. What is the number?

NOTES:

Solve.

$$2x^2 + 18 = -72$$
 $5x^2 + 33 = 3$

Write the expression as a complex number in standard form.

(12 - 11i) + (-8 + 3i) (15 - 9i) - (24 - 9i) 35 - (13 + 4i) + i

Write the quotient in standard form.

3 + 4i	5
$\overline{5-i}$	$\overline{1+i}$

					У,	t			
Plot the complex numbers	in the same comple	x plane.							
A. 4 + 2i	B1 + 3i								_
							_		_
C4i	D. 2 - 2i		0						
									x
Find the absolute value of									
5 - 12i		17i							

Let's see if you comprehended what we worked on in class...