Main Ideas/Questions	Notes/Examples				
WARM UP	Directions: Rewrite each radical by extracting the perfect squares.				
	 √169 	2. $\sqrt{\frac{1}{25}}$	3. √–49		
REWRITING RADICALS with VARIABLES	 You can simplify radical expressions that contain variables. A variable with an even (2, 4, 6) exponent is a perfect square. A variable with an odd (1, 3, 5) exponent is the product of a perfect square and a variable. 				
EXAMPLES	Directions: Simplify each 1. $\sqrt{45a}$	radical expression. 2. $\sqrt{27n^3}$	3. $\sqrt{\frac{25}{b^2}}$		
SOLVING RADICAL EQUATIONS	Sometimes, you can solve a quadratic equation by taking the square root of each side.				
EXAMPLES	Directions: Solve each quadratic equation by taking the square root of each side.				
	1. $x^2 = 40$	2. $x^2 = 75$	3. $x^2 - 4 = 23$		
	4. $(x-1)^2 = 17$	5. (x+8	$(3)^2 = 81$		