Name:	Date:
Topic:	Class:

Topic:			Class:
Main Ideas/Questions	Notes/Examples		
	1	SIMPLIFY all radicals.	
ADDING &	2	Identify radicals with the SAME INDEX and SAME RADICAND . Only these can be combined!	
SUBTRACTING	3	For common radicals, add/subtract the coefficients and KEEP THE COMMON RADICAL.	
Radicals	1. 3	√27 – 2√12	2. $3\sqrt[3]{54} - 2\sqrt[3]{2} + 7\sqrt[3]{-16}$
	3. 75	$\sqrt[4]{48} - 2\sqrt[4]{3} + 3\sqrt[3]{72}$	4. $10\sqrt{28} + \sqrt[3]{-56} - 4\sqrt{175}$
			3 3 3
	5. √9	$98x^4y^2 - 3x^2y\sqrt{2}$	6. $\sqrt[3]{-40a^7} + 2a^2 \cdot \sqrt[3]{135a^4}$
	1	Adultin I. and Ministry I. and Adultin I. and Adult	
MULTIPLYING Radicals	1	Multiply coefficients, then use t	The PRODUCT RULE: $\sqrt{a} \cdot \sqrt{b} =$
	2	SIMPLIFY the resulting radical. $ 8. \ 3\sqrt{10} \cdot -2\sqrt{18} $	
	1. 12	27 - 43	6. 3\(\frac{10}{2}\)\(
	• • •	85 -37	10 245 45
	9. 23	³ √9 · 5 ³ √−24	10. $-3\sqrt[4]{64} \cdot -\sqrt[4]{8}$