

Name _____

Date _____

Block _____

Unit 2

MM1A2. Students will simplify and operate with radical expressions, polynomials, and rational expressions.

- a. Simplify algebraic and numeric expressions involving square root.
- b. Perform operations with square roots.

Adding and Subtracting Radicals Notes

- 1) Simplify all terms
- 2) Identify "like terms"
 - a. "like terms" are terms with the same radical attached
- 3) Add the coefficients of the like terms, the radical stays the same (just like with the variables in the polynomials)
- 4) Do not combine unlike terms

Work the following problems. Check your answers with the substitute. At the bottom of the back of this sheet are five problems that she does not know the answer to. Answer those questions on your own, then turn them in to the substitute when you finish.

1) $5\sqrt{3} + 2\sqrt{3}$

2) $6\sqrt{2} - 2\sqrt{2}$

3) $2\sqrt{3} + 2\sqrt{12}$

4) $5\sqrt{3} + 2\sqrt{5} + 3\sqrt{27}$

5) $9\sqrt{8} - 2\sqrt{18}$

6) $\sqrt{99} + 2\sqrt{44}$

7) $2\sqrt{3x^2} + 3\sqrt{12x^2}$

8) $7\sqrt{5} - 2\sqrt{27}$

9) $9\sqrt{7} - 2\sqrt{28} + 3\sqrt{63}$

10) $2\sqrt{9} - \sqrt{8} - 3\sqrt{4}$

11) $\sqrt{98} - 3\sqrt{50}$

12) $6\sqrt{5} - 2\sqrt{8} + 3\sqrt{2}$