

Name \_\_\_\_\_

II Test Radical Eqns

Date \_\_\_\_\_

1. Write the procedure for simplifying radicals
2. Product Rule for Radicals
3. Power Rule to Eliminate Radicals
4. Procedure for solving equations containing radicals
5. Why do we have to check answers when solving radical equations.

Simplify the following expressions

6.  $5\sqrt{6} - 10\sqrt{6} - 3\sqrt{6} - 11\sqrt{6} + \sqrt{6}$

7.  $3\sqrt{12} + 5\sqrt{20} - 8\sqrt{12} + 3\sqrt{20}$

8.  $\sqrt{a^2b} - 2a\sqrt{b} + \sqrt{9a^2b}$

9.  $\sqrt{18x^2y} - 2\sqrt{2x^4y^3} + \sqrt{8y^5}$

10.  $5\sqrt{3}(2\sqrt{3} - 3\sqrt{2})$

11.  $(5\sqrt{3} + 2)(2\sqrt{3} - 1)$

Solve the following equations

Solve the following, check your answers!

12.  $\sqrt{x} = 3$

13.  $\sqrt{x - 1} = 5$

14.  $2\sqrt{x + 3} - 2 = 6$

15.  $\sqrt{x - 5} - \sqrt{x} = -1$

16.  $\sqrt{x^2 - 8} = 2 - x$

17.  $\sqrt[3]{3x-9} - 2 = -4$

18.  $\sqrt{4x+3} = 2\sqrt{x-1} + 1$

19. \*\*\*Write a home phone, cell phone, email or home address to contact parents or guardians (CHP).