HW #11 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rational Exponents and Solving Radical Equations

#1 – 2 Write in radical form and simplify. #3 -4 Write each using rational (fractional) exponents.

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| 1.  | 2.  | 3.  | 4.  |

Use your rules to write the expressions in exponential form.

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| --- | --- | --- | --- |
| 5. $\sqrt{x^{5}y^{10}}$ | 6.$\sqrt[3]{64x^{3}y^{12}}$ | 7.$\sqrt[5]{125x^{6}y^{5}}$ | 8. $\sqrt{144x^{4}y^{12}}$ |
| 9. Simplify and state the excluded values | 10. Solve:  |
| 11. Simplify:  | 12. Simplify:  |
| Don’t forget the questions on the back! ☺ |
| 13. Simplify:  | 14. Simplify:  |