Exponent Rules Practice

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Simplify.

1. (a2b4)(a6b7)5 \_\_\_\_\_\_\_\_\_\_\_\_\_ 2. (x5y4)3 ÷ (x4y7) \_\_\_\_\_\_\_\_\_\_\_

3. $( \frac{x^{5}}{y^{7}}$ )0 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. (r5 t8)3 (x0)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. (m5n9) ($m^{-4}$) \_\_\_\_\_\_\_\_\_\_\_\_\_ 6. (24)(22)2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. ($x^{-2}$)($x^{-7}$) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. (abc)0 (a2b4c3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Simplify.

1. (a2b4)(a6b7)5 \_\_\_\_\_\_\_\_\_\_\_\_\_ 2. (x5y4)3 ÷ (x4y7) \_\_\_\_\_\_\_\_\_\_\_

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Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_

Simplify.

1. (a2b4)(a6b7)5 = a30b39 2. (x5y4)3 ÷ (x4y7) = x11y5

3. $( \frac{x^{5}}{y^{7}}$ )0 = 1 4. (r5 t8)3 (x0)\_= r15t24

5. (m5n9) ($m^{-4}$) = mn9 6. (24)(22)2 = 28 = 256

 7. ($x^{-2}$)($x^{-7}$) = $\frac{1}{x^{9}}$ 8. (abc)0 (a2b4c3) = a2b4c3

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Simplify.

1. (a2b4)(a6b7)5 \_\_\_\_\_\_\_\_\_\_\_\_\_ 2. (x5y4)3 ÷ (x4y7) \_\_\_\_\_\_\_\_\_\_\_

3. $( \frac{x^{5}}{y^{7}}$ )0 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. (r5 t8)3 (x0)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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7. ($x^{-2}$)($x^{-7}$) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. (abc)0 (a2b4c3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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