Rational exponent –

For any nonnegative real number *b*,

Ex1: Write each expression in radical form, or write each radical in exponential form.

a) b) c) d)

1a) 1b) 1c) 1d)

Recall: Prime Numbers:

Ex2: Simplify the following  
a) b) 2a)

For any positive real numbers *b* and any positive integer *n* > 1,

Ex3: Simplify  
a) b) c) d)

For any positive real number *b* and any positive integers m and n > 1,

Ex4: Simplify  
a) b) 4a) 4b)

|  |  |  |
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| **Write each expression in radical form, or write each radical in exponential form.** | | |
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| **Simplify** | | |
| 7. | 8. | 9. |
| 10. | 11. | 12. |