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| **Homework 4 Nth Roots and Rational Exponents** | | | | | | **Unit 1** | | | | |
| Parts of a Radical    *If there’s no number at the root, then it’s a 2.* | | | | | | | | | | |
| Simplify Radicals  Root is also called an index.   * Prime Factor * Circle groups of the root and bring them out * If you bring out more than one, multiply | | | | | | | | | | |
| Simplify | | | | | | | | | | |
|  | |  | | |  | | |  | | |
| Rewriting Radicals to have a Rational Exponent | | | | | | | | | | |
| Rewrite the following to have a rational exponent | | | | | | | | | | |
|  |  | | |  | | |  | | |  |
| Rewriting Rational Exponents to Radicals | | | | | | | | | | |
| Rewrite the following without a rational exponent (don’t evaluate). | | | | | | | | | | |
|  | | |  | | | | | |  | |
| Rewrite the following; then EVALUTATE | | | | | | | | | | |
|  |  | | |  | | |  | | |  |
| Solve. | | | | | | | | | | |
| 1. A cube has a volume of 343 in3. Find the length of an edge of the cube. | | | | | | 1. The volume of a basketball is approximately 448.9 in3. Find the radius to the nearest tenth. | | | | |