SWBAT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Radicals!** The radical says, **“Take the principal root!”**

  **In The Calculator …** Know how to use $\sqrt{}$ button

**Simplifying Radicals:** 1) Write the prime factors of the radicand.

 2) Find the 2-of-a-kinds

 3) Take out the root.

Examples:

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**Multiplying Radicals** – If the index is the same, 1) multiply the \_\_\_\_\_\_\_\_\_\_\_\_\_ 2) multiply the \_\_\_\_\_\_\_\_\_\_\_\_and simplify!

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HW: U6 L2 Homework

When we **add and subtract radicals,** we can only combine **LIKE RADICALS!**

**LIKE RADICALS** have the **SAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_** and the **SAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

Which expressions are Like Radicals? $\sqrt[3]{5}$$2\sqrt{7}$$2\sqrt[3]{x }$$\sqrt{7x} $$3\sqrt[3]{5}$$\sqrt[4]{5}$$2\sqrt[3]{7}$$\sqrt{5}$$\sqrt{x}$

**Adding and Subtracting Radicals – ONLY** add and subtract the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ !**

 **NEVER ADD RADICANDS NEVER ADD RADICANDS NEVER ADD RADICANDS**

|  |  |  |
| --- | --- | --- |
| 3 + 4 |  + 2 + 3 | 4 -  |
|  -  |  |  |
|  |  |  |
|  |  |  |