Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_ Period: \_\_\_\_\_Date: \_\_\_\_\_\_\_

**7.1B NOTES – Finding Square Roots**

*Objective: Evaluate expressions using square roots. (8.EE.2)*

*HW: (7.1B) p. 292 #2, 6, 20 – 32 all*

**You will be presented with TWO kinds of rational radicals (fractions under square root sign)**

|  |  |
| --- | --- |
| **Quotient (Numerator ÷ Denominator) is a PERFECT SQUARE**  Example: | **Numerator and Denominator of Fraction are BOTH Perfect Squares**  Example: |

**Copy the examples from the textbook and Video Tutors in B.I.M.**

|  |  |
| --- | --- |
| **7.1, Example 3 (p. 291)**  Evaluate each expression | **Video Tutor 7.1, Example 3**  Evaluate each expression |

On Your Own problems #7 – 10 (p. 291). DIRECTIONS: Evaluate the expression.

|  |  |  |
| --- | --- | --- |
| 7. | 8. | 9. |

**BACK 🡪**

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| **7.1, Example 4 (p. 291)**  The area of a crop circle is 45,216 square feet. What is the radius of the crop circle? Use 3.14 for (Area of a circle = ) |
| **Video Tutor 7.1, Example 4**  What is the radius of the circle? Use 3.14 for |
| **Extra Example:**  The area of a circle is . Write and solve an equation to find the radius of the circle. |

**On Your Own**

|  |  |
| --- | --- |
| 10a. The area of a circle is 2826 square feet. Write and solve an equation to find the  radius of the circle. Use 3.14 for | |
| 10b. The area of a circle is . Write and solve an equation to find the radius  of the circle. | |
| 11a. Fill in with >, <, or =    \_\_\_\_ 19 | 11b. Fill in with >, <, or =  \_\_\_\_\_\_ |