Algebra II – Day 43 Formative Ticket Solving Radical Equations

Examples of Solving Radical Equations

- Fact One: Radical must be alone before you apply the inverse operation. Before you raise both sides of an equation to a power, you must isolate the radical.
- Fact Two: Always check for extraneous solutions. Extraneous solution may exist with radical
 equations. When we take the square root of a real number, we only want the principal square root
 which <u>CANNOT</u> be negative. Therefore, you must check your solutions to determine if extraneous
 solutions exist.

$2\sqrt{x+1} = 14$	2. $6 + \sqrt[3]{y - 4} = 9$	$(3x-1)^{\frac{1}{5}} = 2$
$4.$ $\sqrt{x+18} = x-2$	$5.$ $\sqrt{y+2} = \sqrt{2y+5}$	$6.$ $\sqrt{m+23} = 2\sqrt{m+11}$