Radical Fun	ctions							
Wednesday, April 13, 2016	12:46 PM							

I hear you like radicals, so I put a radical in your radical, so you can radical while you radical.



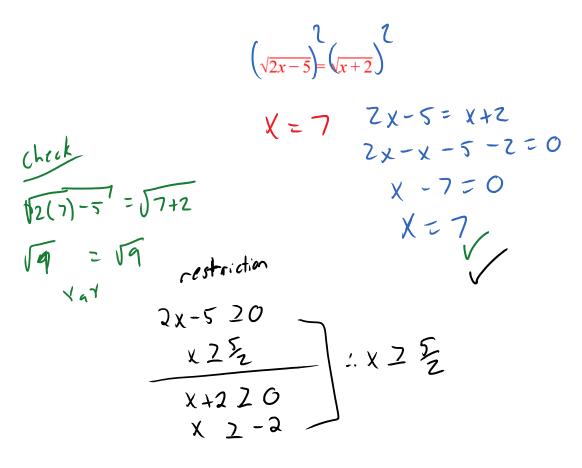
It looks tougher than it is... I promise.

We do the same things.

- 1. Isolate the radical
 - > Get the root alone on one side of the equation
- 2. Square both sides
 - > This gets rid of the radical. Back to easy mode after • Now we just have to do this step one more time.
- 3. Solve for x
- 4. Check for extraneous roots
 - > Sometimes you may find answers that are not allowed. Non Permissible Values (NPV)

Check 012

$$7+\sqrt{3x}=\sqrt{5x+4}+5$$
 $7+0=\sqrt{4}+5$
 $7+\sqrt{3x}=\sqrt{5x+4}+5$
 $7+\sqrt{6}=\sqrt{4}+5$
 $7+\sqrt{3x}=\sqrt{5x+4}+5$
 $7+\sqrt{6}=\sqrt{4}+5$
 $7+\sqrt{3x}=\sqrt{5x+4}+5$
 $7+\sqrt{6}=\sqrt{6x+4}$
 $7+\sqrt{6}=\sqrt{6x$



HW: Pg: 301 #9abc,10