Trig 4.7

Solve radical equations*
Solve radical inequalities

*Algebra 2 Ch.5

radical

radical equation

extraneous solutions (might have to DQ...)

radical inequality (solutions must be REAL)

Quiz 4.5-4.6

2 =
$$\sqrt{9} + 5$$

2 Solve $x = \sqrt{x+7} + 5$.
-5 -5 ($x-5$)= $\sqrt{x+7}$

$$X^{2}-10x+25 = x+7$$
 $-x-7$
 $X^{2}-10x+25 = x+7$

Use EWE...good decision making

EWE eeewe!

Rule of thumb: number of $\sqrt{\ }$ = number of rounds...

Inequalities: Solutions must be REAL! What would make them not real?

5 Solve $\sqrt{4x+5}$ ≤ 10.

Solve each inequality.

9.
$$\sqrt{5x+4} \le 8$$

10.
$$3 + \sqrt{4a - 5} \le 10$$

7.
$$\sqrt{6x-4} = \sqrt{2x+10}$$

7.
$$\sqrt{6x-4} = \sqrt{2x+10}$$
 8. $\sqrt{a+4} + \sqrt{a-3} = 7$