Square the following	Radical Equations H	
	$\sqrt{-x}$	w   2
$\sqrt{x}$	V	x + 2
x + 1	$3\sqrt{x}$	$-\sqrt{x}$
		V.
$\frac{\sqrt{x}}{2}$	$\frac{\sqrt{2x}}{5}$	$\sqrt{x-1}$
2	5	$\sqrt{x-1}$
$\sqrt{x+2}$	$2\sqrt{x+2}$	$-2\sqrt{x+2}$
$\sqrt{x} + \sqrt{5}$	$\sqrt{2x} + 7$	$\sqrt{x}-2$
$3\sqrt{x}-4$	$2+\sqrt{x-2}$	$8 + \sqrt{x - 7}$
$\sqrt{x+2} + \sqrt{x-1}$		$\sqrt{x-1} + \sqrt{x-1}$

Solve the following equations by squaring both sides, possibly do algebra first.

$$\sqrt{x} = 5$$

$$\sqrt{x} = 6$$

$$\sqrt{x} - 2 = 6$$

$$\sqrt{x} + 8 = 6$$

$$\sqrt{x} = -4$$

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

$$\sqrt{x-1} = -5$$

$$\sqrt{x+3} - 2 = 5$$

$$\sqrt{x} - 8 = -6$$

$$\sqrt{2x+3}=5$$

$$\sqrt{3x - 5} = 4$$

Solve the following equations by squaring both sides, possibly do algebra first.

$$\sqrt{2x} = \sqrt{x+4}$$

$$\sqrt{x} = \sqrt{6-x}$$

$$2\sqrt{2x} = \sqrt{2x+3}$$

$$\sqrt{2x-5} = \sqrt{x-1}$$

$$\sqrt{x+5} = \sqrt{2x+4}$$

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

$$2\sqrt{x+4}=4$$

$$3\sqrt{x+2} - 3 = 9$$

$$-5\sqrt{x-1} = 10$$

Solve the following equations by squaring both sides, possibly do algebra first.

$$2\sqrt{x-2} = \sqrt{x+1}$$

$$2\sqrt{x-5} = \sqrt{x+7}$$

$$2\sqrt{7x-6} = 3\sqrt{2x-8}$$

$$x = \sqrt{x+2}$$

$$x = \sqrt{2x + 3}$$

$$x = \sqrt{4x - 5}$$

$$2x = \sqrt{7x - 3}$$

$$2x = \sqrt{-2x + 1}$$

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Solve	? th	e fo	llowi	ng eq	uation	ıs by s	quari	ng bot	th side	s, pos	sibly (	do alg	ebra	first.		
$\sqrt{x}$	+ 3	$\dot{s} = x$	c + 1							1	/2x +	$\overline{1} = 7$	- <i>x</i>			
$\sqrt{x}$ +	<del>3</del> –	- 1 =	= x													
	_	_	ļ							√:	x + 4 -	+ 2 =	х			

Solve the following equations by squaring both sides, possibly twice. Isolate a root 1st.

$$\sqrt{x-3} = \sqrt{x+2} - 1$$

$$\sqrt{x+11} - \sqrt{x-4} = 3$$

$$\sqrt{x+35} = \sqrt{x+15} + \sqrt{x+3}$$

$$x = 1$$

#### C11 - 5.4 - Restrictions HW

Find the Restriction, by setting underneath the root  $\geq 0$  and solve

$$\sqrt{x-1}$$

$$\sqrt{x+2}$$

$$\sqrt{2x-3}$$

$$\sqrt{4x+1}$$

$$\sqrt{-x-1}$$

$$\sqrt{3-x}$$

$$\sqrt{-2x-3}$$

$$\sqrt{1-4x}$$

$$\sqrt{x^2-1}$$

$$\sqrt{4-x^2}$$

$$\sqrt{x^2+1}$$

$$\sqrt{x^2+4}$$

$$\sqrt{(x+1)(x-1)}$$

$$\sqrt{(x+1)(x-1)} \qquad \qquad \sqrt{(x+2)(x-3)}$$

$$\sqrt{x^2 + 5x - 6}$$

$$\sqrt{x^2 - 2x - 3}$$