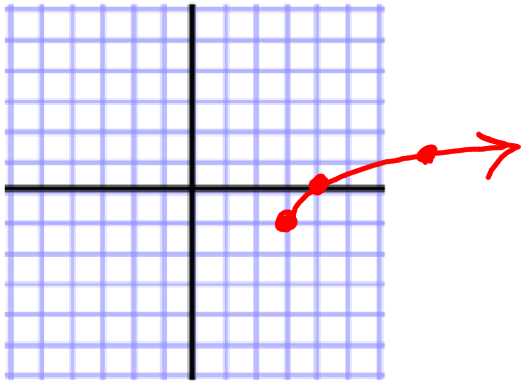
Graphs

Square roots (and other even roots)

$y = \sqrt{x-3} - 1$

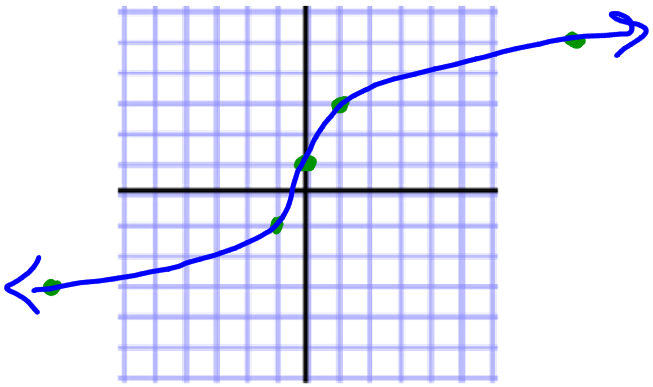
x	y
3	-1
4	0
7	1



Cube roots (and other odd roots)

$y = 2\sqrt[3]{x} + 1$

x	y
0	1
1	3
8	5
-1	-1
-8	-3



Solving Radical Equations:

$$\left(\sqrt{2x+3}\right)^2 = 7^2$$

$2x+3=49$

$2x=46$

$x=23$

$$-5\sqrt{x+1}+12=2$$

$-12 \quad -12$

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

$$\left(\sqrt{x+1}\right)^2=2^2$$

$x+1=4$

$x=3$

$$x^2=\left(\sqrt{4x-3}\right)^2$$

$x^2=4x-3$

$x^2-4x+3=0$

$(x-3)(x-1)=0$

$x=3,1$