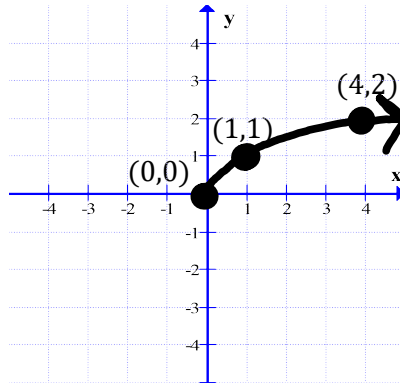


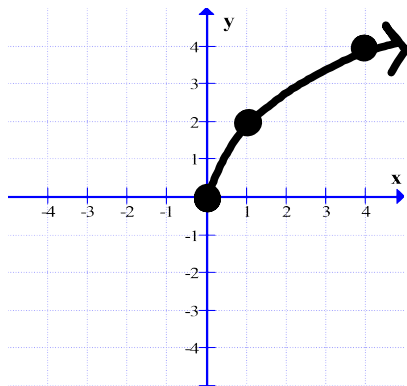
# C12 - 2.2 - Radical Transformations Notes

$$y = \sqrt{x}$$

x	y
-1	und
0	0
1	1
4	2
9	3



$$y = \sqrt{x}$$



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

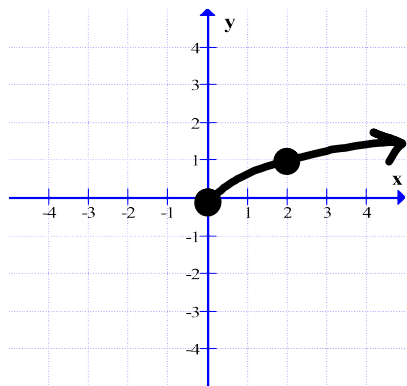
Vertical Expansion = 2

Domain:

Range

$$x \geq 0$$

$$y \geq 0$$



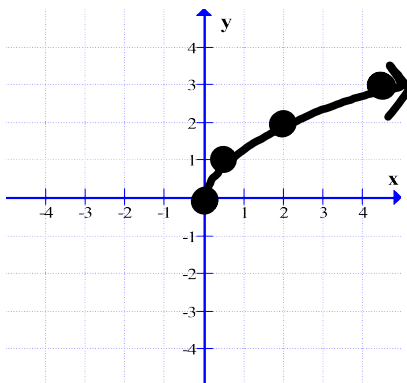
$$y = \sqrt{\frac{1}{2}x}$$

Horizontal Expansion = 2

$$\frac{1}{2}x \geq 0$$

$$y \geq 0$$

$$x \geq 0$$



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

Horizontal Compression =  $\frac{1}{2}$

$$2x \geq 0$$

$$y \geq 0$$

$$x \geq 0$$