

8-6 Graphing Radical Functions

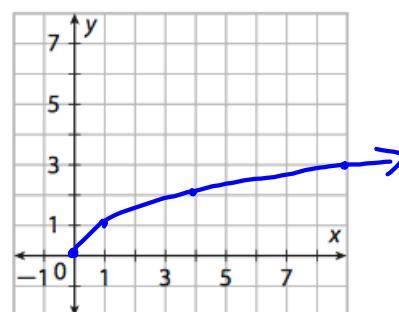
Objectives:

- I can graph square root functions
- I can identify transformations

Mar 12-10:11 PM

Graph the following and state the domain and range

x	$f(x) = \sqrt{x}$
0	0
1	1
4	2
9	3



Domain: $[0, \infty)$
Range: $[0, \infty)$

Mar 12-10:12 PM

Transformation Form

State the transformations

$$g(x) = 2\sqrt{x-3} - 2$$

stretch 2
right 3
down 2

$$f(x) = -\sqrt{x-2} + 1$$

V-flip
right 2
up 1

$$h(x) = -3\sqrt{x-2} + 3$$

V-flip
right 2
up 3
stretch 3

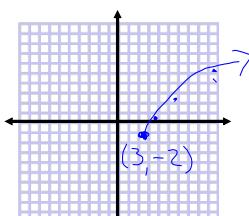
Mar 12-10:13 PM

Graph and state the Domain and Range

$$g(x) = 2\sqrt{x-3} - 2$$

D: $[3, \infty)$

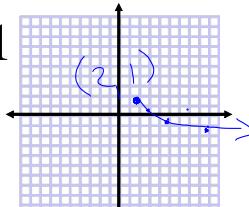
R: $[-2, \infty)$



$$f(x) = -\sqrt{x-2} + 1$$

D: $[2, \infty)$

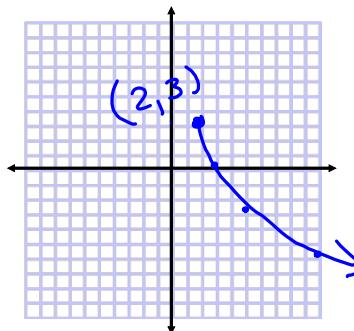
R: $(-\infty, 1]$



$$h(x) = -3\sqrt{x-2} + 3$$

D: $[2, \infty)$

R: $(-\infty, 3]$



Mar 12-10:19 PM