Writing Equations given the transformaions:

1. The parent function  $f(x) = \sqrt{x}$  is  $\sqrt{66}$ reflected across the x-axis, stretched vertically by a factor of 4, and translated i unit up

- curbed root
- 2. The parent function  $f(x) = \sqrt[3]{x}$  is stretched horizontally by a factor of 2. reflected across the y-axis, and translated 3 units left

you also have \*must include (

Graphing Radicals with transformation. Use your graphing calculator to plot points. \* Calc. may look like it

1.  $f(x) = \sqrt{x+6}$ 



Flx>=

2. f(x) = 3 √x has a qap \* Vectical stretch by 3 v : (0,0)

0

3



You tryl

3. 
$$f(x) = -\sqrt{x-3}$$

\* reflect x-axis \* down 3





f(x) = √x - 2 + 3





\* A reflection on a cubed root would turn it into "back-stroke Swim"

# **Answers Practice 12 1 Graphing Rational Functions**

**Reza Nazari** 

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